

# Canis Major® Veterinary Tables

Model Numbers:

**CMWO**

**CMWS**

**CMDT-45**

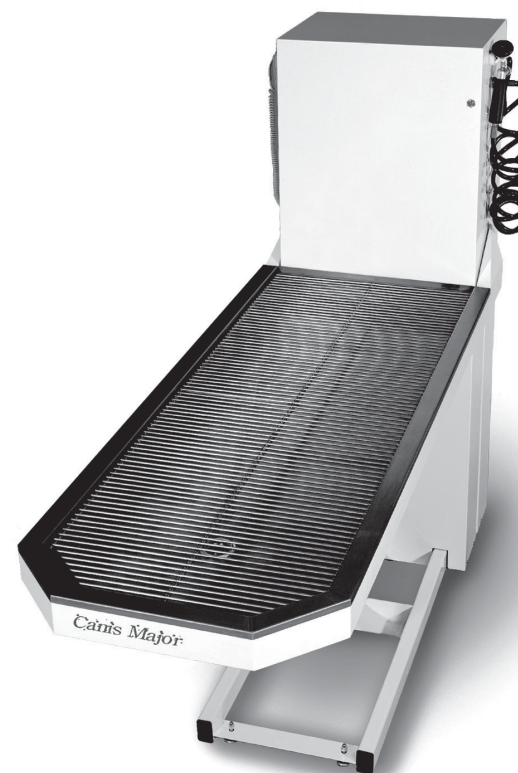
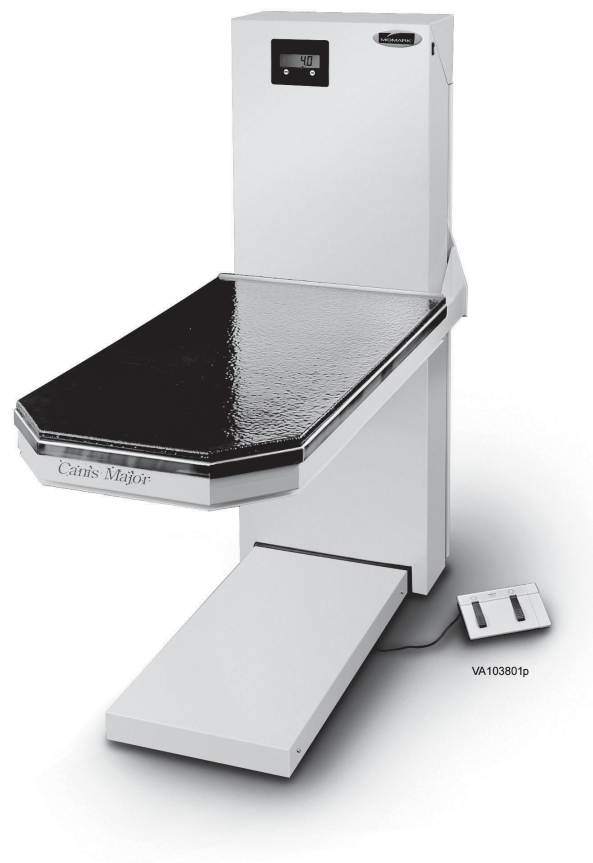
**CMDT-WS-45**

**CMDT-60**

**CMDT-WS-60**



## Service and Parts Manual



FOR USE BY MIDMARK TRAINED TECHNICIANS ONLY

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\* Indicates multiple pages due to model / serial number break(s)

## Symbols



### **DANGER**

*Indicates an imminently hazardous situation which **will** result in serious or fatal injury if not avoided. This symbol is used only in the most extreme conditions.*



### **WARNING**

*Indicates a potentially hazardous situation which **could** result in serious injury if not avoided.*



### **CAUTION**

*Indicates a potentially hazardous situation which **may** result in minor or moderate injury if not avoided. It may also be used to alert against unsafe practices.*



### **Equipment Alert**

*Indicates a potentially hazardous situation which could result in equipment damage if not avoided.*



*In Section A, test the components in the order indicated. (ex. 1st ✓ then, 2nd ✓)*

*Refer to Section B for component testing procedures.*

The symbols below may be used in this manual to represent the operational status of table functions and components.



*Indicates the function / component is working properly. No action required.*



*Indicates the function / component is working, but a problem exists.*



*Indicates the function / component is not working at all.*

## Ordering Parts

The following information is required when ordering parts:

- Serial number & model number
- Part number for desired part.

*[Refer to Exploded Views / Parts Lists section]*

**Non-warranty parts orders may be faxed to Midmark using the Fax Order Form in the back of this manual.**

**For warranty parts orders, call Midmark's Technical Service Department with the required information.**

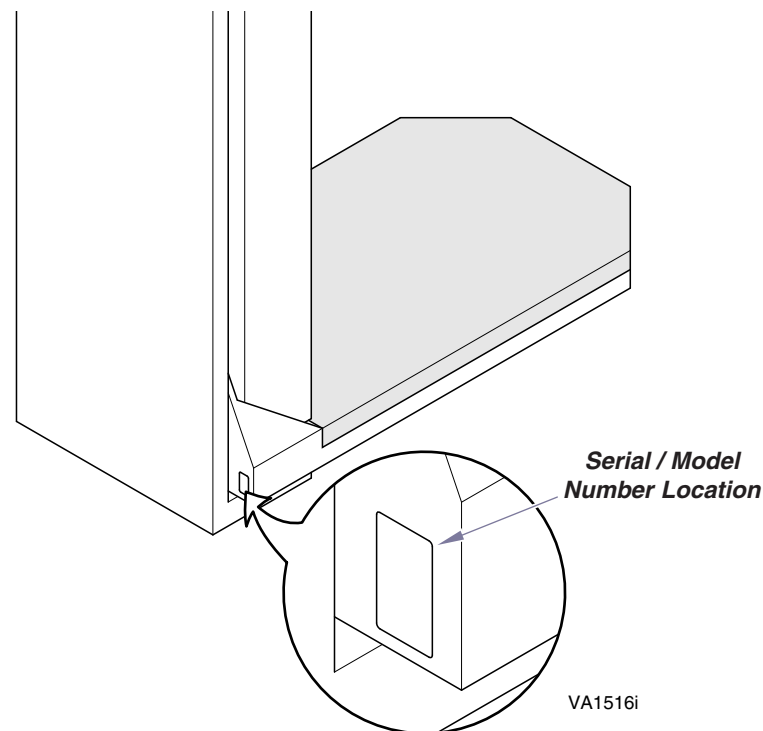
Hours: 8:00 am until 5:00 pm EST [Monday - Friday]

Phone: 1-(800)-Midmark

## Serial Number Location

*(Model CMW\* shown)*

*(Model CMDT\*\* similar)*



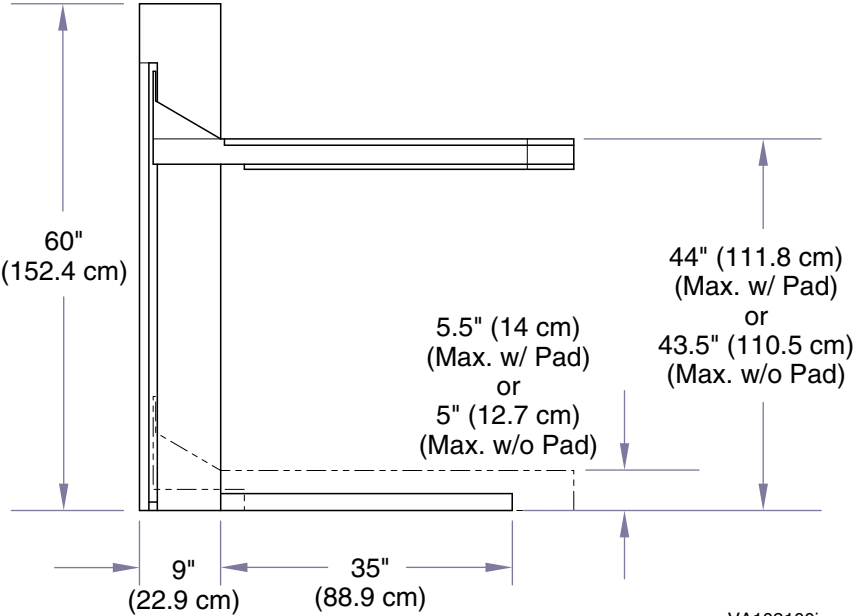
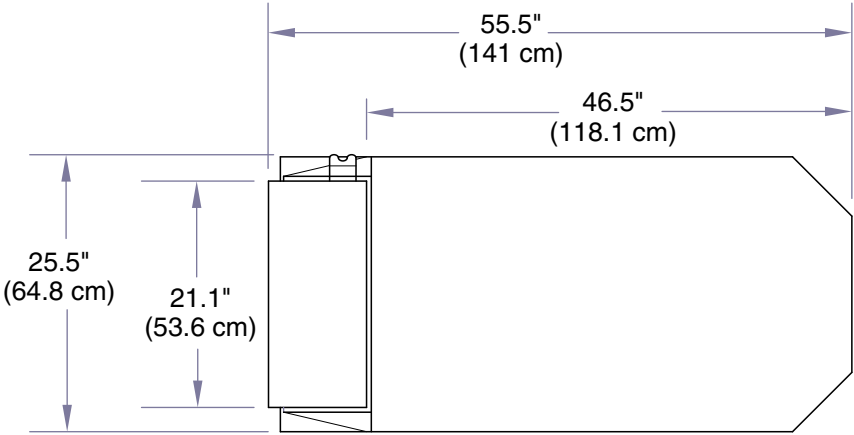
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# General Information

## Specifications (Model CMWO / CMWS)

Patient Weight (maximum)	300 lbs (136 kgs)
Range of Motion & Dimensions	See illustration on this page
Weight of Table:	
w/o packaging & skid	315 lbs (142 kg)
w/ packaging & skid	372 lbs (169 kg)
(Add 5 lbs (2.2 kg) for units equipped with a scale)	
Power Cord:	7 ft. (213 cm) long
Electrical Rating:	Dedicated Circuit 115 VAC, 60 Hz, 10A

Duty Cycle:	
Actuator motor run time:	Intermittent Operation (1 minute ON / 9 minutes off)
Classifications:	Class 1, Type B Applied Part, Ordinary Equipment, Intermittent Operation
Table Speed:	
150 lb patient	< 40 seconds
<150 lb or >150 lb. patient	29 to 45 seconds
Usage Enviornment:	
Ambient Temperature Range:	10°C to +40°C (+23°F to 104°F)
Relative Humidity	30% to 75% (non-condensing)
Atmospheric Pressure	700hPa to 1060hPa (0.69atm to 1.05atm)



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# General Information

## Specifications

(Models: CMDT-45 / CMDT-WS-45 / CMDT-60 / CMDT-WS-60 )

Patient Weight (maximum) ..... 300 lbs (136 kgs)

Range of Motion & Dimensions ..... See illustration on this page

### Weight of Table

(CMDT-45 / CMDT-WS-45):

w/o packaging & skid ..... 366 lbs (166 kg)

w/ packaging & skid ..... 435 lbs (197 kg)

### Weight of Table

(CMDT-60 / CMDT-WS-60):

w/o packaging & skid ..... 395 lbs (179 kg)

w/ packaging & skid ..... 465 lbs (211 kg)

Power Cord: ..... 4 ft. (121 cm) long

Electrical Rating: ..... Dedicated Circuit  
115 VAC, 60 Hz, 10A

GFI Receptacle Rating: ..... Class A, 2P, 125 VAC, 60HZ

### Duty Cycle:

Actuator motor run time: ..... Intermittent Operation  
(1 minute ON / 9 minutes off)

Pump motor run time: ..... Intermittent Operation  
(thermal protection)

Classifications: ..... Class 1, Type B Applied Part,  
Ordinary Equipment,  
Intermittent Operation

### Table Speed:

150 lb patient ..... < 40 seconds

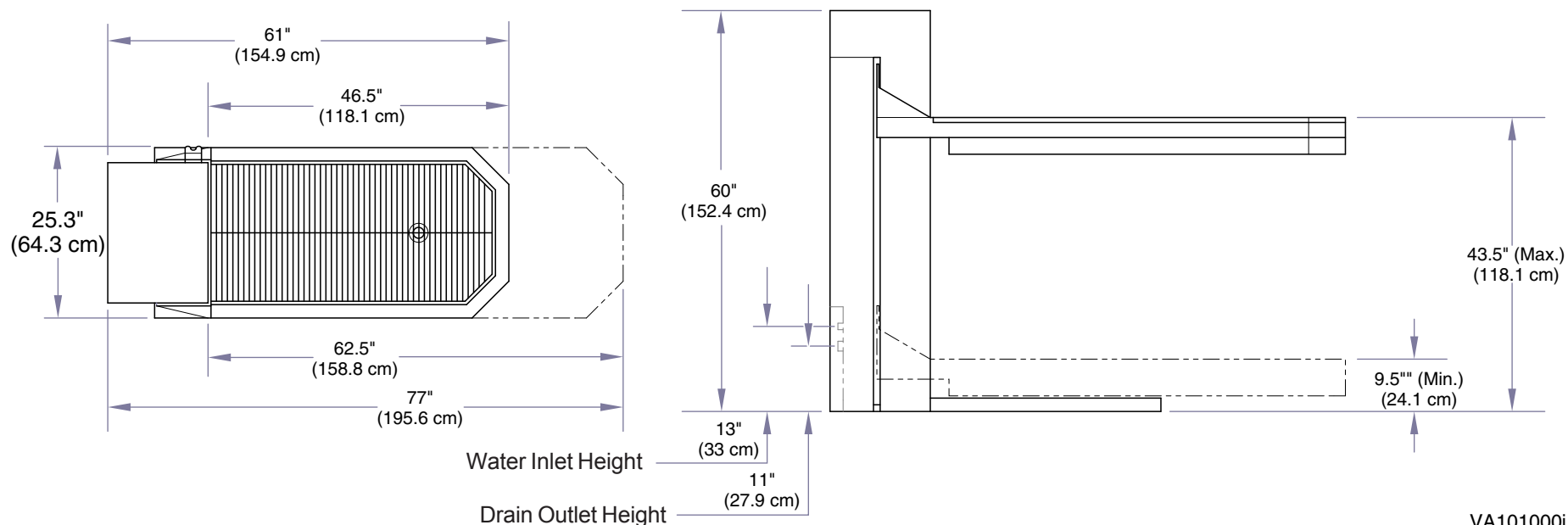
<150 lb or >150 lb. patient ..... 29 to 45 seconds

### Usage Environment:

Ambient Temperature Range: ..... 10°C to +40°C (+23°F to 104°F)

Relative Humidity ..... 30% to 75% (non-condensing)

Atmospheric Pressure ..... 700hPa to 1060hPa (0.69atm to 1.05atm)



VA101000i

# General Information

Scheduled Maintenance Canis Major Veterinary Tables								
Interval	Inspection or Service	Service, Adjust, Repair and/or Replace as Required (Refer to Service & Parts Manual)	CMWO	CMWS	CMDT-45	CMDT-WS-45	CMDT-60	CMDT-WS-60
Daily	Cleaning	Inspect and clean debris trap beneath tabletop.			X	X	X	X
		Clean stainless steel surfaces with a mild cleaning agent and rinse and towel dry.	X	X	X	X	X	X
Weekly	Cleaning	Wipe painted metal & plastic surfaces with a clean soft cloth and a mild cleaner.	X	X	X	X	X	X
		Clean stainless steel surfaces with a mild cleaning agent and rinse and towel dry. <i>(NOTE: Periodic application of common furniture wax will ease cleaning and maintain the luster of the surfaces.)</i>	X	X	X	X	X	X
		Obvious Damage	Visually inspect components for damage that could cause problems during procedures or unsafe operation.	X	X	X	X	X
	Semi-Annually	Mechanical Operation	Check all mechanical functions using foot control or hand switches.	X	X			
Check all mechanical functions using hand control.					X	X	X	X
Check tabletop safety stop operation.			X	X				
Check water system for leaks.					X	X	X	X
Labels / Decals		Replace any missing or illegible labels.	X	X	X	X	X	X
Lubricate		Lubricate lift mechanism columns (earlier units only).	X	X	X	X	X	X
Hardware		All fasteners must be present and fastened securely.	X	X	X	X	X	X
Electical System		Inspect power cord and all visible wiring for damage.	X	X	X	X	X	X
	Be sure all electrical connections are tight.	X	X	X	X	X	X	
Date of Service: ____ / ____ / ____      Code: _____			Model: _____					
Location: _____ _____ _____			Serial Number: _____					
Service Technician: (print name) _____ (signature) _____			Comment: _____ _____ _____ _____					

## ***Warranty Information***

### **SCOPE OF WARRANTY**

Midmark Corporation (“Midmark”) warrants to the original purchaser its new Animal Care products and components (except for components not warranted under “Exclusions”) manufactured by Midmark to be free from defects in material and workmanship under normal use and service. Midmark’s obligation under this warranty is limited to the repair or replacement, at Midmark’s option, of the parts or the products the defects of which are reported to Midmark within the applicable warranty period and which, upon examination by Midmark, prove to be defective.

### **APPLICABLE WARRANTY PERIOD**

The applicable warranty period, measured from the date of delivery to the original user, shall be one (1) year for all warranted products and components except tabletop mat which shall be ninety (90) days.

### **EXCLUSIONS**

This warranty does not cover and Midmark shall not be liable for the following: (1) repairs and replacements because of misuse, abuse, negligence, alteration, accident, freight damage, or tampering; (2) products which are not installed, used, and properly cleaned as required in the Midmark “Installation” and or “User’s” Manual for this applicable product; (3) products considered to be of a consumable nature; (4) accessories or parts not manufactured by Midmark; (5) charges by anyone for adjustments, repairs, replacement parts, installation, or other work performed upon or in connection with such products which is not expressly authorized in writing in advance by Midmark.

### **EXCLUSIVE REMEDY**

Midmark’s only obligation under this warranty is the repair or replacement of defective parts. Midmark shall not be liable for any direct, special, indirect, incidental, exemplary, or consequential damages or delay, including, but not limited to, damages for loss of profits or loss of use.

### **NO AUTHORIZATION**

No person or firm is authorized to create for Midmark any other obligation or liability in connection with the products.

**THIS WARRANTY IS MIDMARK’S ONLY WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. MIDMARK MAKES NO IMPLIED WARRANTIES OF ANY KIND INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS.**

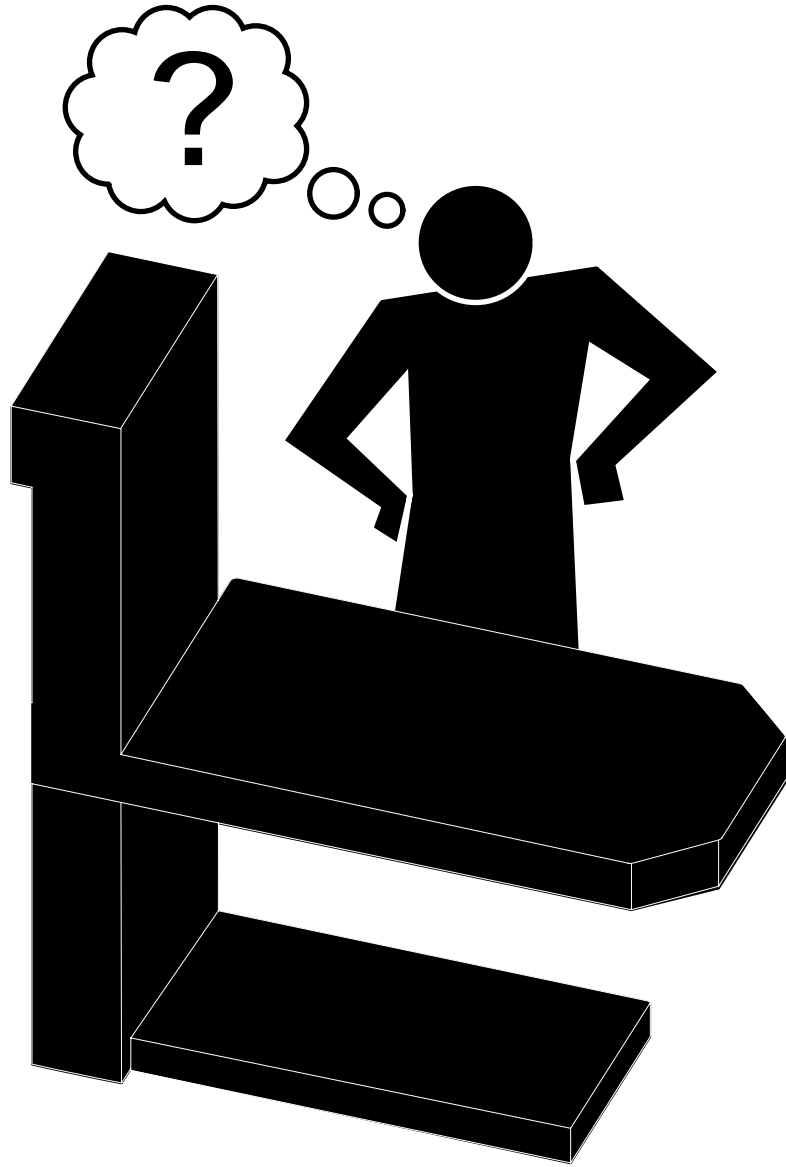
### **Additional Information**

Failure to follow the guidelines listed below will void the warranty and/or render the table unsafe for use.

- If a malfunction is detected, do not use the table until necessary repairs are made.
- Do not attempt to disassemble table, replace components, or perform adjustments unless you are a Midmark authorized service technician.
- Do not use another manufacturer’s parts to replace malfunctioning components. Use only Midmark replacement parts

# Section A

## Troubleshooting



### Function / System

### Page

#### ***Wet Tables***

CMDT-45, CMDT-WS, CMDT-60,  
CMDT-WS-60, CMDT-GC-60 ..... A-2

#### ***Dry Tables***

CMWO, CMWS ..... A-3



# Troubleshooting

## Theory of Operation

### Wet tables

With the table's power cord properly connected, facility supply voltage (115 VAC) is supplied thru the cord to the GFI (Ground Fault Interruption) receptacle and into the electrical box. Current flows to the water sensor, pump, timer, power supply for scale (if applicable) and control box.

The control box reduces the voltage and supplies 24 VDC to the limit switch and hand control.

The current in the hand control continuously flows back to the control box thru separate wires for table function. When a direction is selected from the hand control, this "signal voltage" is removed from the wire corresponding to the selected function. When the signal voltage is removed, the control box activates the actuator lifting the table up or down.

When the sprayer hand control is activated for water, it flows in through a hot and cold water intake connection. Hot and cold water flow together through a mixing valve which is factory set at 70° F (21°C) but can be adjusted up to 120° F (49°C). Mixed water then flows through to a shut-off valve and then on to the sprayer.

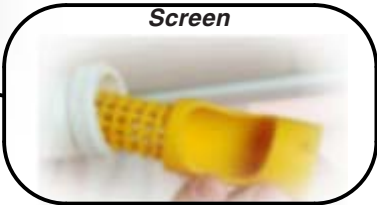
Water is collected in a stainless steel pan and drains through a screen and out the drain hose. Water flows down thru the drain hose and activates the water sensor which starts the pump. The water then travels through the pump and out into the drain. Whenever the water sensor senses water running past it the pump will be activated.

When the sensor no longer senses water, the timer is activated which keeps the pump running for 3 seconds and empties the table plumbing of water.

Refer To:	Page
Troubleshooting	
Wet Table .....	A-4
Scale .....	A-6



(Older version shown)



## Theory of Operation

### Dry Tables

With the table's power cord properly connected, facility supply voltage (115 VAC) is supplied thru the cord to the receptacle for scale power supply (if applicable) and control box.

The control box reduces the voltage and supplies 24 VDC to the lift actuator and energizes the safety and rocker (up/down) switches.

The current in the rocker switches and foot control continuously flows back to the control box through separate wires for table raise and lower function. When a direction is selected and the rocker switch is activated, the "signal voltage" is interrupted from the wire corresponding to the selected function. When the signal voltage is interrupted, the control box activates the actuator moving the table either up or down.

The table has a safety pan directly beneath the table top. If an obstruction is encountered as the table top is descending the safety switches will activate and the table will stop. In this instance the table will always rise when the up switch is activated. (unless the table is in the full up position.)

### Refer To:

### Page

### Troubleshooting

Dry Table ..... A-5

Scale ..... A-6



**Models:**  
Serial Numbers:

**CMWO**  
ALL

**CMWS**  
ALL

**Dry Table Operation**

# Troubleshooting

Wet Table

Problem	Probable Cause	Correction
<b>Table Will Not Go Down</b>	Table is not getting power.	Verify unit is plugged into and wall outlet that is supplying power.
	Wires or cord damaged.	Visually check wires and cords for power supply.
	Obstruction	Check for Obstacles under the table.
	Hand Control not getting power.	Verify hand control plug is fully inserted and making proper connection. <b>Refer to: Section B Hand Control</b>
	Control cord is damaged.	Replace control cord. <b>Refer to: Section B Control Box</b>
	Limit switch not set properly.	Adjust limit switch. <b>Refer to: Section B Limit Switch</b>
<b>Table Will Not Go UP</b>	Table is at maximum height.	Try moving table down and then back up.
	Table is not getting power.	Verify unit is plugged into a wall outlet that is supplying power.
	Control cord is damaged.	Replace control cord. <b>Refer to: Section B Control Box</b>
	Wires or cord is damaged.	Visually check power supply and cords for damage.
<b>Table Will Not Go UP or DOWN</b>	Table is not getting power.	Verify unit is plugged into a wall outlet that is supplying power.
	Receptacle needs reset.	Press the reset button on the GFI receptacle. Try to move table up and down.
	Hand control not getting power.	Verify hand control plug is fully inserted and making proper connection. <b>Refer to: Section B Hand Control</b>
	Control cord is damaged.	Replace control cord. <b>Refer to: Section B Control Box</b>
	Wires or cord is damaged.	Visually check power supply and cords for damage.
	Hand control not getting power.	Verify hand control plug is fully inserted and making proper connection. <b>Refer to: Section B Hand Control</b>
	Limit switch not set properly.	Adjust limit switch. <b>Refer to: Section B Limit Switch</b>
	Actuator not working.	Check actuator. <b>Refer to: Section B Actuator</b>
<b>Table Won't Drain</b>	Screen is clogged.	Clean screen. <b>Refer to: Section B Screen</b>
	Drain is clogged.	Clean screen and drain hose. <b>Refer to: Section B Screen</b>
	Water sensor may need replaced.	Check water sensor. <b>Refer to: Section B Water Sensor</b>
<b>Pump Won't Start</b>	Water sensor set to high.	Adjust water sensor and timer. <b>Refer to: Section B Water Sensor</b>
<b>Pump Won't Shut Off and Continues to run without Water</b>	Water sensor set to low.	Adjust water sensor and timer. <b>Refer to: Section B Water Sensor</b>
	Water sensor may need replaced.	Check water sensor. <b>Refer to: Section B Water Sensor</b>
<b>Spray Hose Leaking</b>	Has old style 1 1/2" fitting.	Replace with new 3" fitting. <b>Refer to: Section B Spray Nozzle and Hose Assembly</b>
<b>Water Sensor Light is On but Pump not On</b>	Pump may need replaced.	Check Pump. <b>Refer to: Section B Pump</b>
<b>Pump Running But Not Pumping Water</b>	Pump may need replaced.	Check Pump. <b>Refer to: Section B Pump</b>

## Dry Table

Problem	Probable Cause	Correction
<b>Table Will Not Go DOWN</b>	Table is not getting power.	Verify unit is plugged into and wall outlet that is supplying power.
	Control cord is damaged.	Replace control cord. <b>Refer to: Section B Control Box</b>
	Wires or cord damaged.	Visually check power supply and cord for damage.
	On Dry Tables: Safety switch is activated.	Verify area around table is clear of obstacles. There are four switches, two on each side, which act as contact points for the safety pan. When the pan is pushed up it hits one or more of these switches which in turn breaks the electrical connection and stops the table. Usually jiggling the pan will free-up the offending switch. <b>Refer to: Section B Safety Switch</b>
	Foot control not getting power.	Verify foot control plug is fully inserted and making proper connection. <b>Refer to: Section B Foot Control</b>
	Loose connection rocker switch.	Check rocker switch connections. <b>Refer to: Section B Rocker Switch</b>
<b>Table Will Not Go UP</b>	Table is at maximum height.	Try moving table down and then back up.
	Table is not getting power.	Verify unit is plugged into and wall outlet that is supplying power.
	Control cord is damaged.	Replace control cord. <b>Refer to: Section B Control Box</b>
	Wires or cord damaged.	Visually check power supply a cord for damage.
	Foot control not getting power.	Verify foot control plug is fully inserted and making proper connection. <b>Refer to: Section B Foot Control</b>
	Loose connection in rocker switch.	Check rocker switch connections. <b>Refer to: Section B Rocker Switch</b>
<b>Table Will Not Go UP or DOWN</b>	Table is not getting power.	Verify unit is plugged into and wall outlet that is supplying power.
	Wires or cord damaged.	Visually check power supply a cord for damage.
	Control cord is damaged.	Replace control cord. <b>Refer to: Section B Control Box</b>
	Foot control not getting power.	Verify foot control plug is fully inserted and making proper connection. <b>Refer to: Section B Foot Control</b>
	Loose connection in rocker switch.	Check rocker switch connections. <b>Refer to: Section B Rocker Switch</b>
	Actuator not working.	Check actuator. Refer to: <b>Section B Actuator</b>

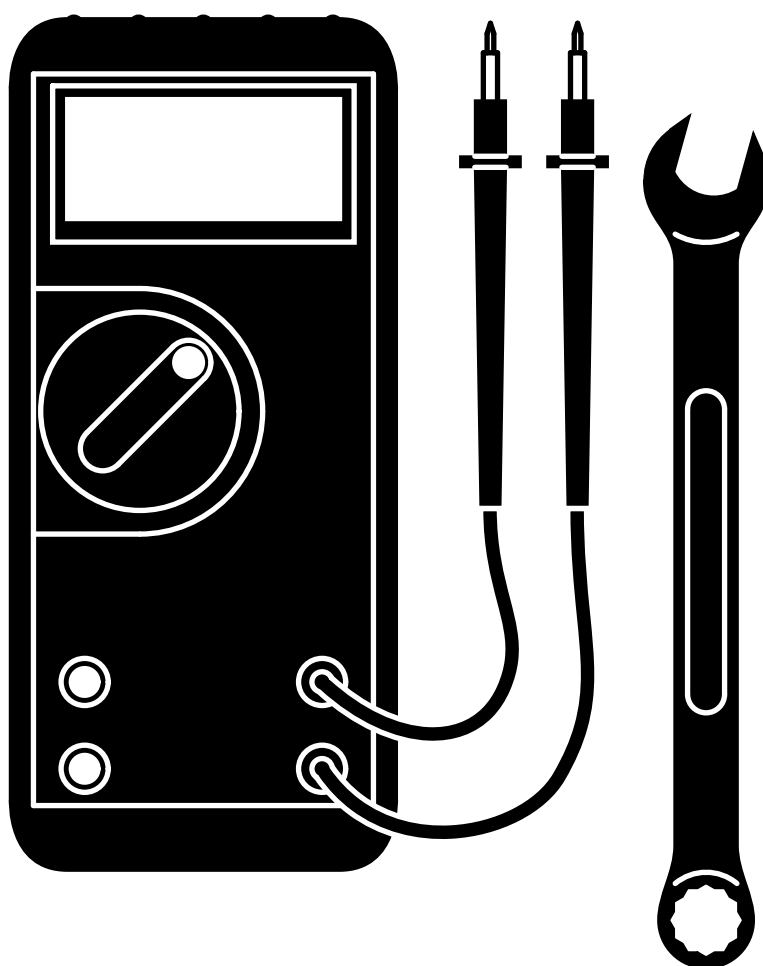
# Troubleshooting

## Scale

Problem	Probable Cause	Correction
No Display	Table is not getting power or has a loose connection.	Verify unit is plugged into a wall outlet that is supplying power.
	Transformer may need replaced.	Check transformer.
Incorrect weights	Obstruction.	Verify there is nothing interfering with the scale platform underneath and on all sides. Check display for correct units, lbs or kg.
Display Segment's Missing, Illegible (Faint) or Flickering On and Off	Wire harness from the scale display to the main PC board is not fully docked.	Verify wire harness is fully connected to display. <b>Refer to: Section B Scale (Display)</b>
	Scale needs reset.	Disconnect display and plug into the other receptacle. Unplug the
	Scale needs calibrated.	Calibrate scale. <b>Refer to: Section B Scale Calibration</b>
	Transformer may need replaced.	Check transformer. <b>Refer to: Section B Scale (Transformer)</b>
ZERO Key Does NOT Reset Zero	Platform not level.	Verify the platform is level and supported evenly at corners.
	Motion on scale.	Remove source of motion.
	Excessive load.	Remove excess load.
	Scale needs rebooted.	Unplug the scale power supply for a minute to reset, and try to zero again.
	Scale needs calibrated.	Calibrate scale. <b>Refer to: Section B Scale Calibration</b>
Display "Locked" and not Changing	Scale needs rebooted.	Unplug the scale power supply for a minute to reset, and try to zero again.
	Scale needs calibrated.	Calibrate scale. <b>Refer to: Section B Scale Calibration</b>
Displays "HiLoAd"	Weight on the scale platform exceeds 300 lbs.	Remove excess load.
Displays "HiLdX"	Load placed on scales too heavy on a corner.	Center load on the scale platform.
Displays "LoLdX"	The scale is underloaded.	Reposition cover (if applicable) or table top.
	Examination table top out of place.	Uninstall and reinstall table. <b>Refer to: Section C Table Top</b>
	Load cell needs replaced or load cell cable damaged.	Check load cell. <b>Refer to: Section B Scale (Load Cells)</b>
ZERO & Unit keys Do Not Work	Scale needs reset.	Disconnect display and plug into the other receptacle. Unplug the scale power supply for a minute to reset, and try again.
Scale Doesn't Work Properly After Replacing Scale Board and or Load Cells	Scale needs calibrated.	Calibrate scale. Refer to: Section B Scale Calibration

# Section B

## Testing & Repair



<u>Components</u>	<u>Page</u>
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Rocker Switch .....	B-8
Safety Switch .....	B-10
Hand Control .....	B-12
Limit Switch .....	B-14
Receptacle .....	B-16
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Screen and Water Hose .....	B-20
Water Sensor .....	B-22
Spray Nozzle and Hose Assembly .....	B-25
Scale .....	B-26
Scale (Calibration) .....	B-27
Scale (Transformer) .....	B-30
Scale (Load Cells) .....	B-31
Scale (Display Check) .....	B-32



# Testing & Repair

## Actuator & Control Box

### Function and Location

The actuator is located in the middle of the column and is the lift mechanism for the work surface. When the hand control or foot control is activated there is 24 VDC current flow from the control box to the actuator.

The control box is mounted inside the column and serves to control outputs to the various electrical components. The control box reduces the 125 VAC line voltage to 24 VDC. When the indicator light is illuminated, power is supplied to the control box.

*\*Replacement instructions are provided with the part.  
They are also available on [documark.com](http://documark.com), or by clicking on the link in the blue box.*

Refer to:

Page

Actuator Test .....

B-3

Control Box .....

B-4

Exploded Views / Part Numbers .....

E-1

[www.midmark.com](http://www.midmark.com):

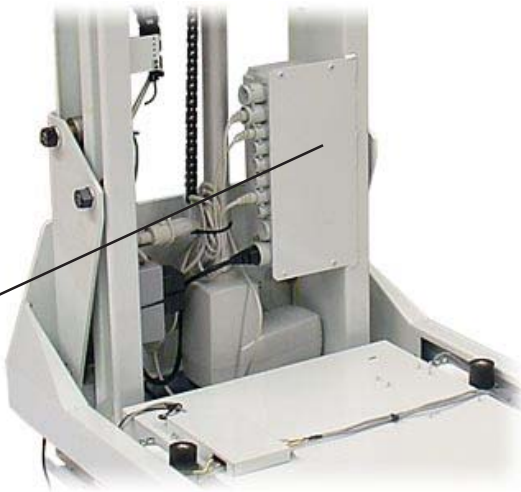
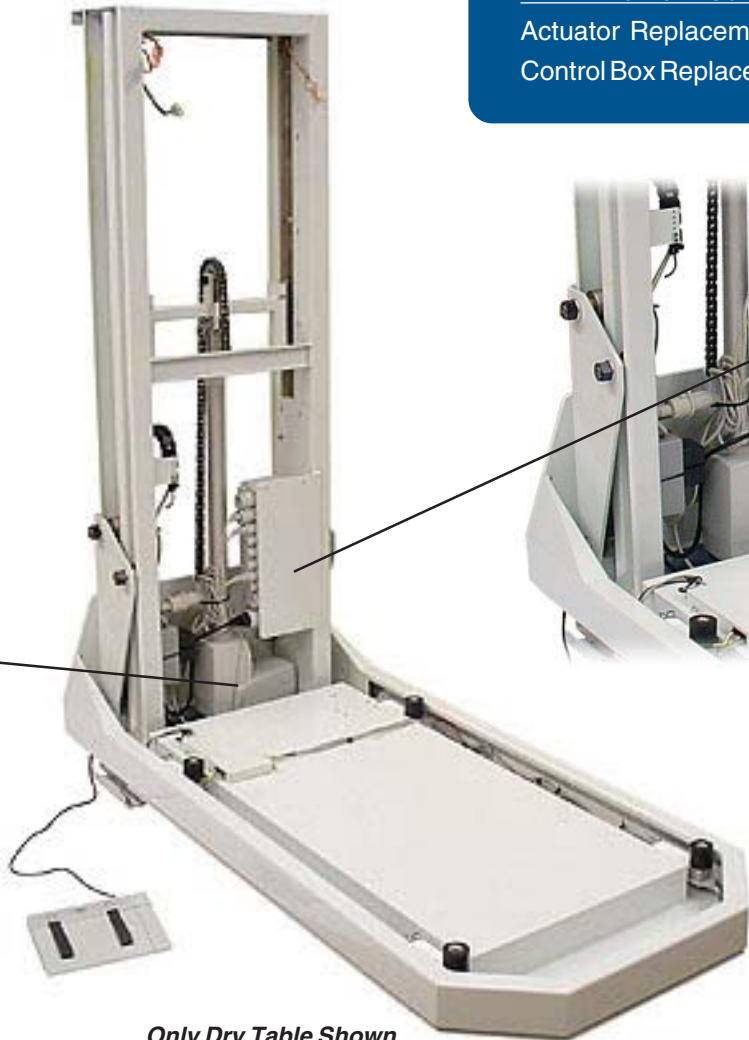
File Name

Actuator Replacement .....

003-1796-00

Control Box Replacement .....

003-1797-00



Only Dry Table Shown  
Same Component and Location in Wet Table

## Actuator

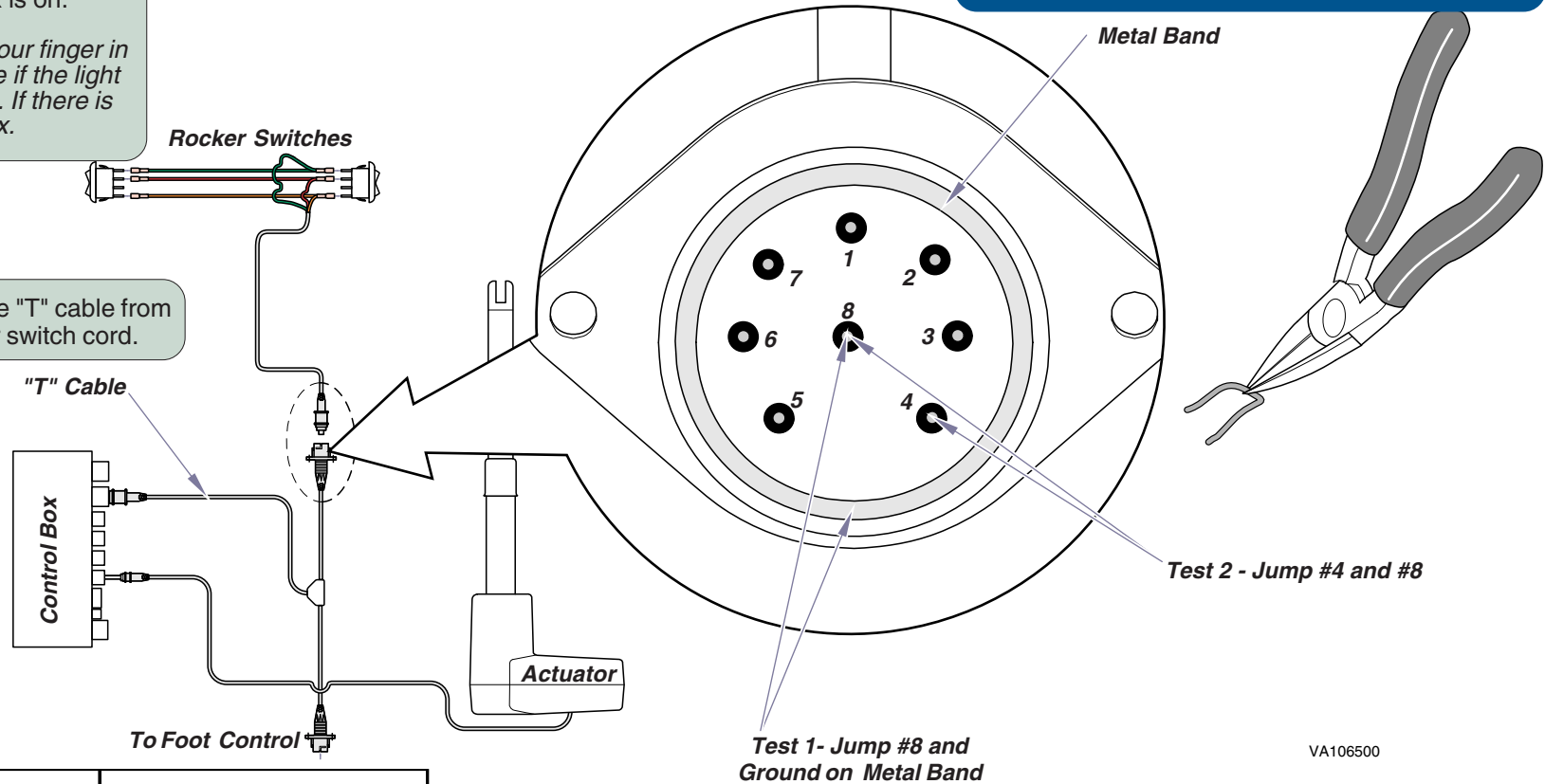
**Step 1:** Remove back panel from column.  
Refer to: Section C Back Panel

### Test

**Step 2:** Check to see if LED light on control box is on.

*Note: You have to place your finger in front of the LED light. See if the light shines on your finger nail. If there is no light check Control Box.*

**Step 3:** Unplug the "T" cable from the rocker switch cord.



Action	Status	Required Action
Table Moves Up and Down During Test 1 and 2		Check both Rocker Switches
Table Does NOT Move During Test 1 or 2		Check "T" Cable for Continuity
"T" Cable Does NOT have Continuity		Replace "T" Cable
"T" Cable Has Continuity and Table Still Does NOT Move		Replace Actuator

**Test 1- Jump #8 and Ground on Metal Band**

VA106500

**Step 4:** Bend a paper clip into a "U" shape. Hold paper clip with insulated needle nose pliers. Test holes shown. Check Continuity in "T" cable.

*Note: The two checks shown in the illustration will move table up and down if actuator is good. If this happens one of the rocker switches might be bad and needs replaced. Refer to: Section B Rocker Switches. If the table doesn't move during the two checks, and the "T" cable has continuity, the actuator needs replaced.*

**Models:** CMWO & CMWS | CMTD & CMTD-WS (45 & 60)  
**Serial Numbers:** All | All

Actuator




# Testing & Repair

## Control Box

### Test

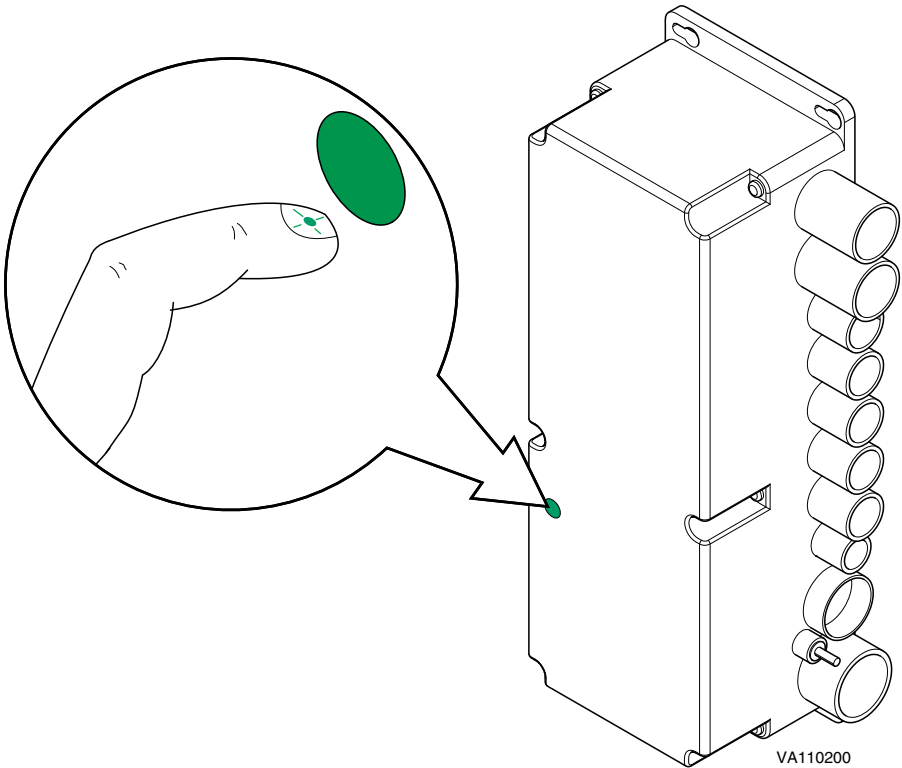
**Step 1:** Remove back panel from column.  
*Refer to: Section C Back Panel*



**Caution**

When testing components with power on use care to prevent electrical shock.

Refer to:	Page
Section C: Access Procedures .....	C-1
Exploded Views / Part Numbers .....	E-1



**Step 3:** Check each component plugged into control box. Refer to Section B (B-1) for test procedure locations.

- Wet Table Only**
- Receptacle
- Hand Control
- Limit Switch
- Pump
- Water Sensor
- Dry Table Only**
- Foot Control
- Rocker Switches
- Both Tables**
- Actuator

*Note: If all components test bad, then the control box needs to be replaced.*

**Step 2:** Check to see if LED light on control box is on.

*Note: Light is very dim. Place your finger under front of LED light. If control box has power you will see LED light reflect off your finger.*

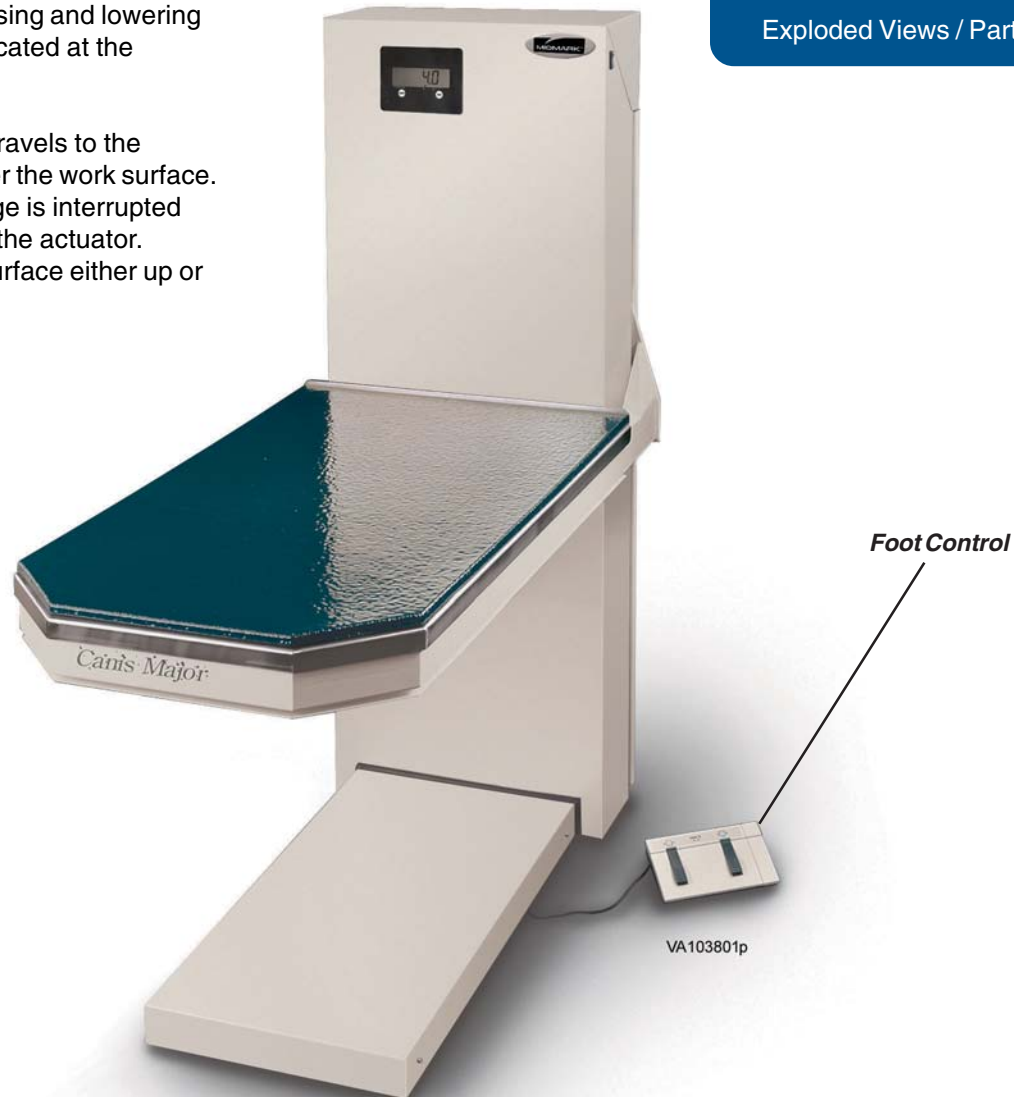
## Foot Control

### Function and Location

The dry table is equipped with a foot control for raising and lowering the work surface. The connection receptacle is located at the bottom rear of the column.

The foot control has continuous current flow that travels to the control box through separate wires to raise or lower the work surface. When the foot control is activated the signal voltage is interrupted which sends a signal to the control box activating the actuator. The actuator is then energizes moving the work surface either up or down.

Refer to:	Page
Foot Control Test .....	B-6
Clean Foot Control .....	B-7
Exploded Views / Part Numbers .....	E-1



**Models:** CMWO & CMWS  
**Serial Numbers:** All

Foot Control

B-5

# Testing & Repair

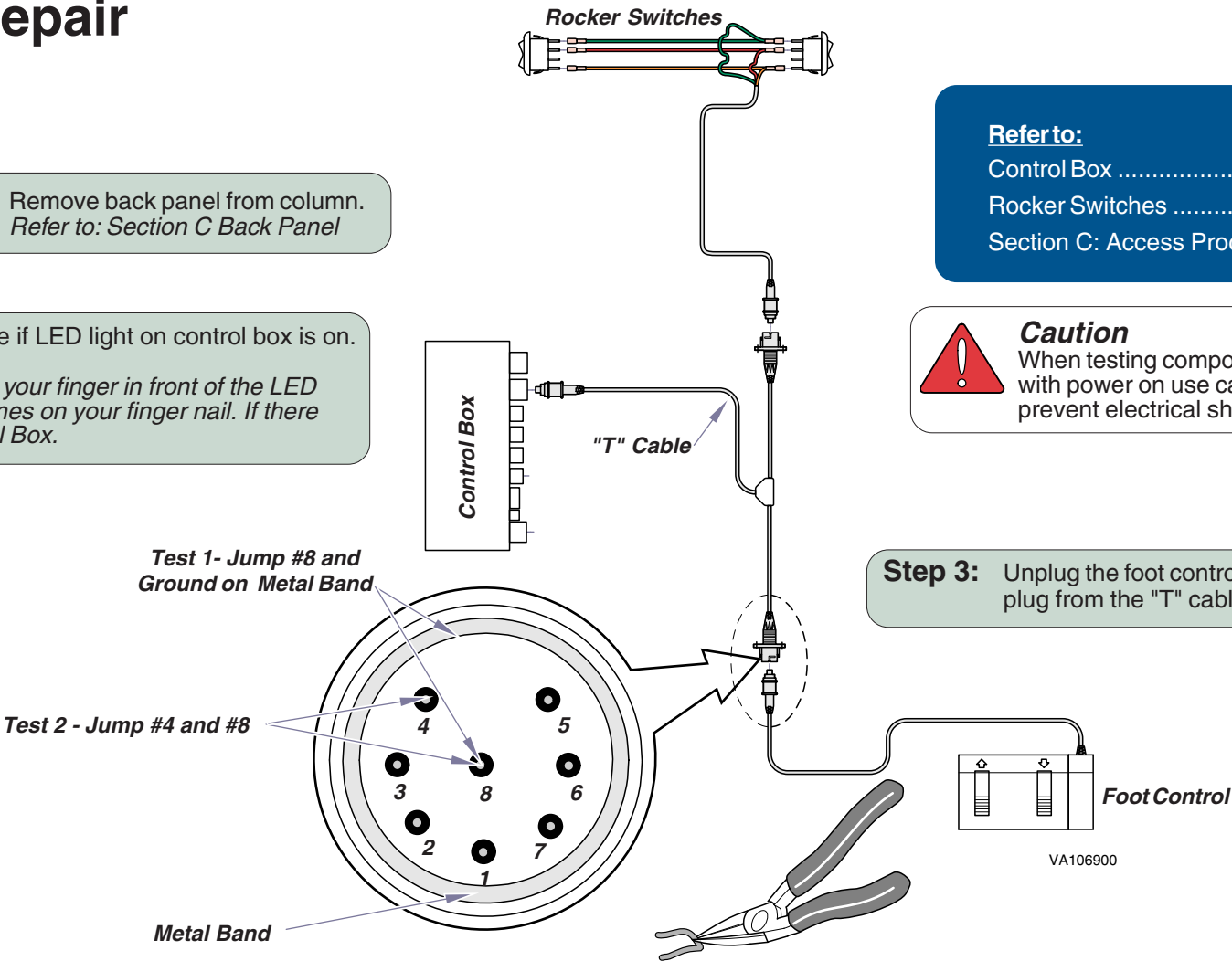
## Foot Control

### Test

**Step 1:** Remove back panel from column.  
Refer to: Section C Back Panel

**Step 2:** Check to see if LED light on control box is on.

*Note: You have to place your finger in front of the LED light. See if the light shines on your finger nail. If there is no light check Control Box.*



Refer to:	Page
Control Box .....	B-4
Rocker Switches .....	B-8
Section C: Access Procedures .....	C-1

**Caution**  
When testing components with power on use care to prevent electrical shock.

**Step 3:** Unplug the foot control plug from the "T" cable.

Action	Status	Required Action
Table Moves Up and Down During Test 1 and 2		Check both Rocker Switches
Table Does NOT Move During Test 1 or 2		Check "T" Cable for Continuity
"T" Cable Does NOT have Continuity		Replace "T" Cable
"T" Cable Has Continuity and Table Still Does NOT Move		Replace Foot Control

**Step 4:** Bend a paper clip into a "U" shape. Hold paper clip with insulated needle nose pliers. Test holes shown. Check Continuity in "T" cable.

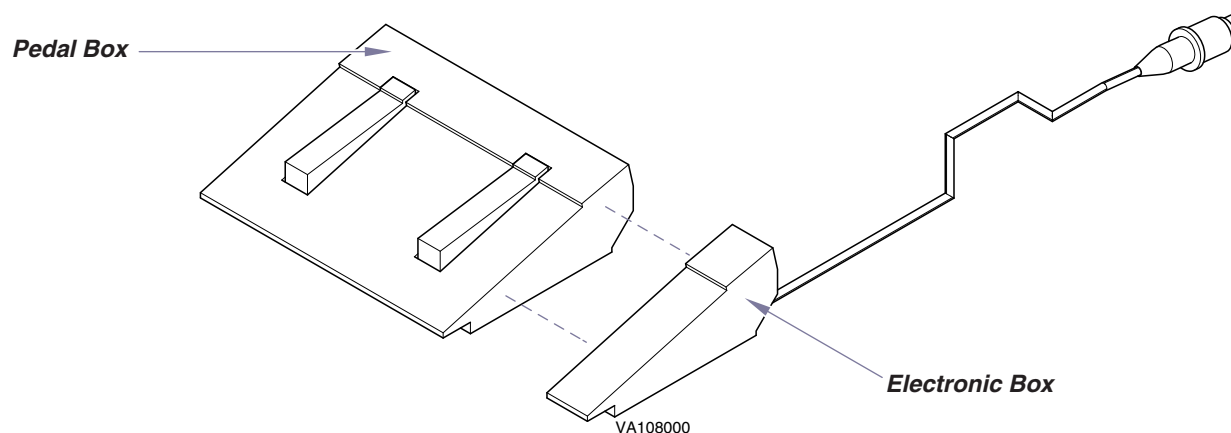
*Note: The two checks shown in the illustration will move table up and down if Foot Control is good. If this happens one of the rocker switches might be bad and needs replaced. Refer to: Section B Rocker Switches. If the table doesn't move during the two checks, and the "T" cable has continuity, the Foot Control needs replaced.*

## Foot Control

### Clean

Refer to:	Page
Foot Control Function and Location .....	B-5
Foot Control Test .....	B-6

**Step 1:** Unsnap apart the pedal box and the electronic box.



**Step 2:** Clean the pedal box with a mild soap.  
Dry pedal box.

**Step 3:** Snap the pedal box and the electronic box together.

# Testing & Repair

## Rocker Switch

### Function and Location

The dry table has two rocker switches located on both sides of the column. These switches have continuous current flowing through them that travels to the control box through separate wires for the tables raise and lower functions.

When a rocker switch is activated the signal voltage is interrupted which sends a signal to the control box. The actuator is then energizes moving the work surface either up or down.

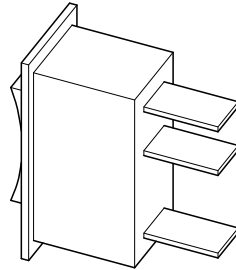
Refer to:	Page
Test Rocker Switch .....	B-9
Exploded Views / Part Numbers .....	E-1



## Rocker Switch

### Test

**Refer to:** **Page**  
Section C: Access Procedures ..... C-1  
Exploded Views / Part Numbers ..... E-1



**Step 1:** Remove back panel from column.  
*Refer to: Section C Back Panel*

**Step 2:** Disconnect rocker switch wires.



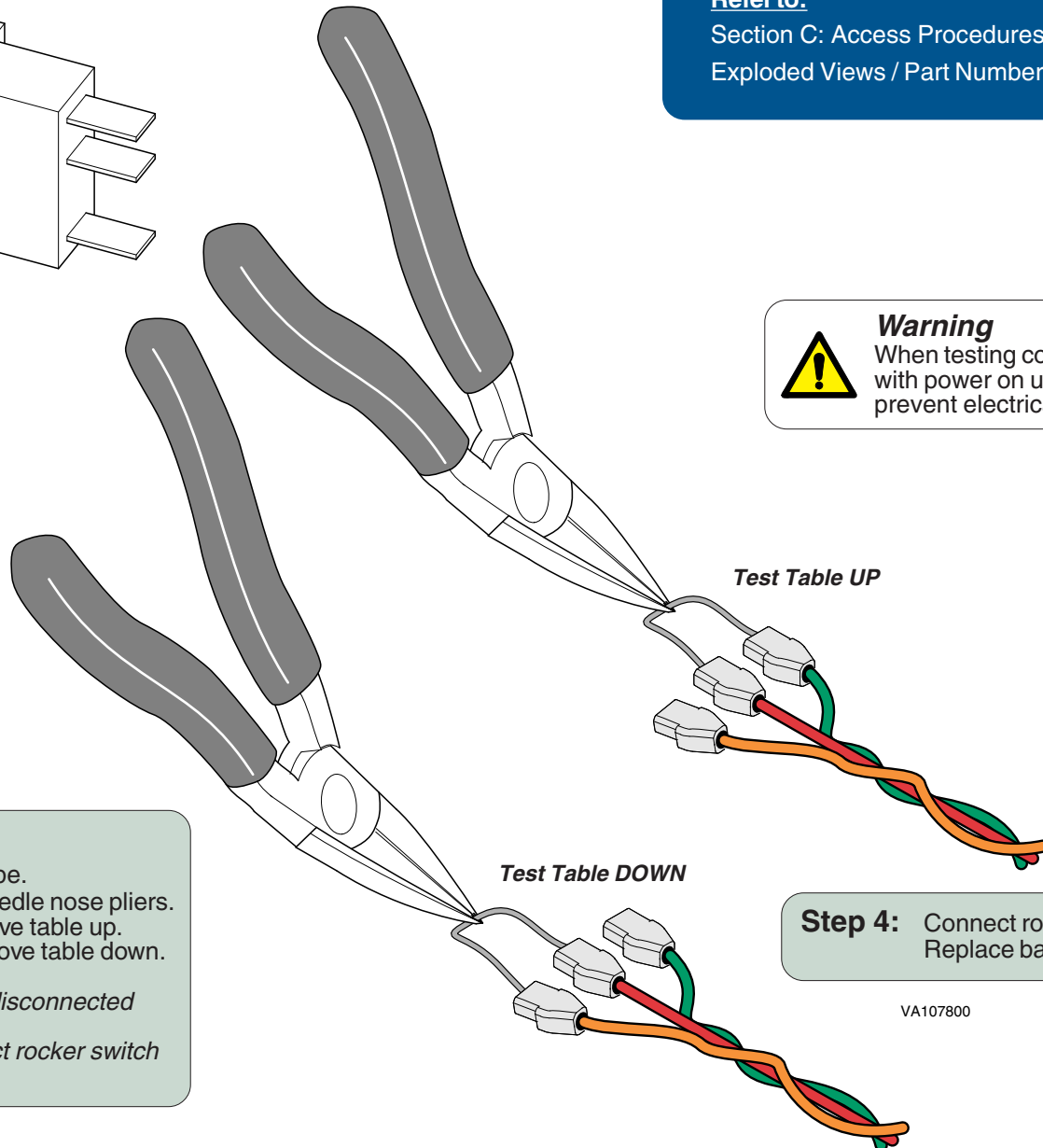
### Warning

When testing components with power on use care to prevent electrical shock.

### Test Each Rocker Switch...

**Step 3:** Bend a paper clip into a "U" shape.  
Hold paper clip with insulated needle nose pliers.  
Test Red and Green wires to move table up.  
Test Orange and Red wires to move table down.

*Note: If table moves up and down replace disconnected rocker switch.  
If table does not move up or down reconnect rocker switch and repeat test on opposite rocker switch.*



**Step 4:** Connect rocker switches.  
Replace back panel.

VA107800

**Models:**  
**Serial Numbers:**

**CMWO & CMWS**  
*All*

**Rocker Switch**

**B-9**

# Testing & Repair

## Safety Switch

### Function and Location

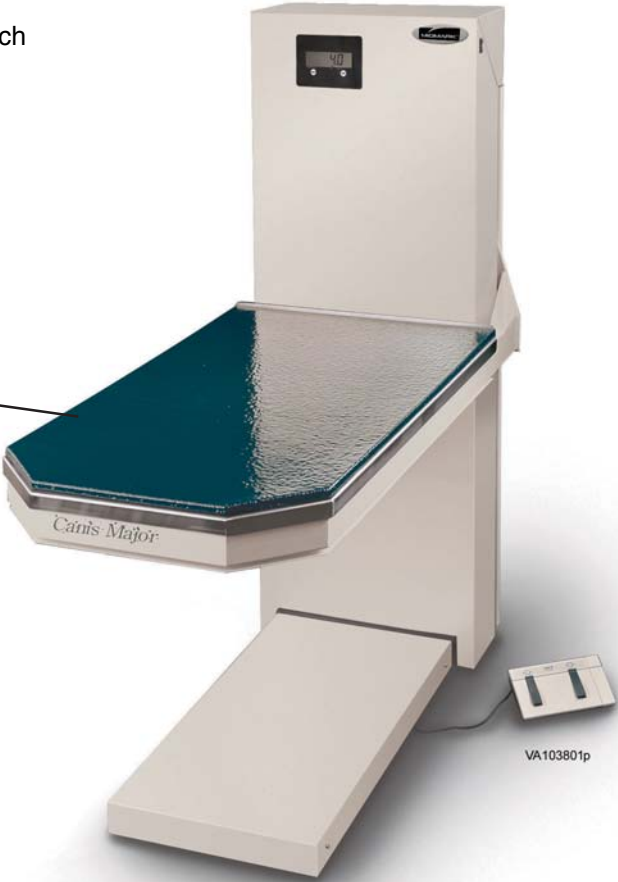
The Dry Table has a safety feature that is designed to disable the down function when an obstruction is encountered beneath the work surface.

The feature consist of four micro switches, two on either side, which are activated by the safety pan.

Refer to:	Page
Test Safety Switch .....	B-11
Exploded Views / Part Numbers .....	E-1



(Older version shown)



## Safety Switch

Refer to:

Section C: Access Procedures ..... C-1

Page

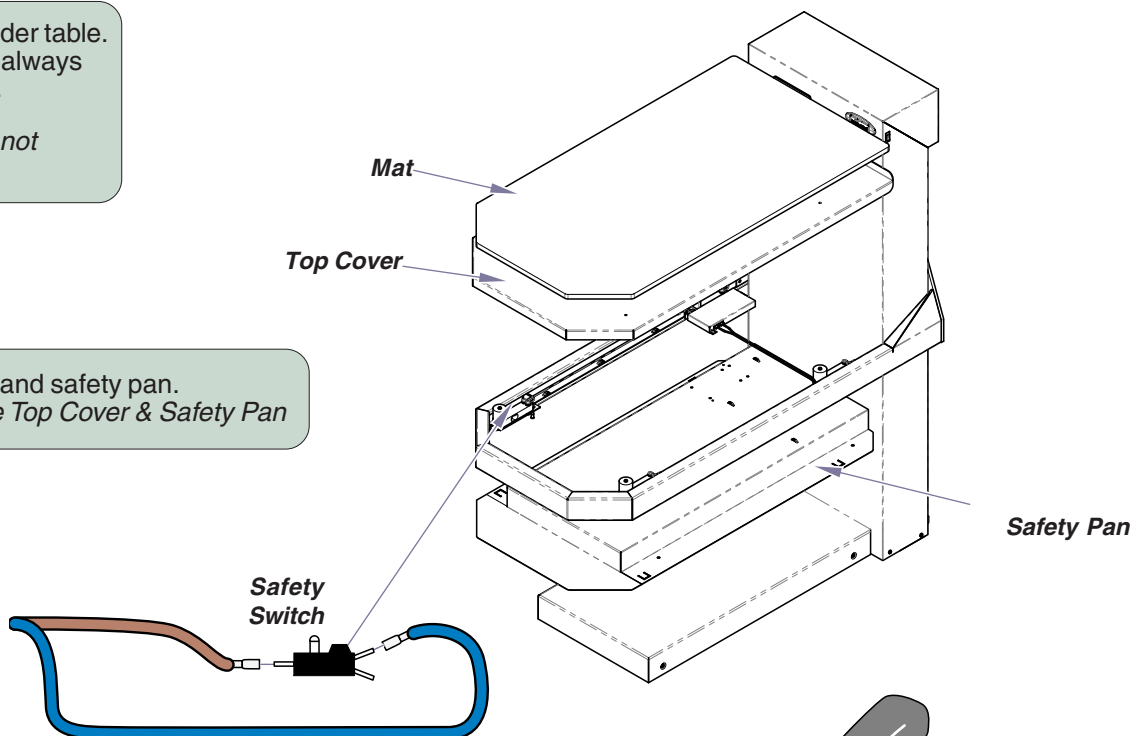
C-1

### Test

**Step 1:** Verify there are no obstructions under table. Jiggling the safety pan will almost always free up an offending safety switch.

*Note: Check to see if table will move down. If not continue with Step 2.*

**Step 2:** Remove table top cover and safety pan.  
Refer to: Section C Table Top Cover & Safety Pan

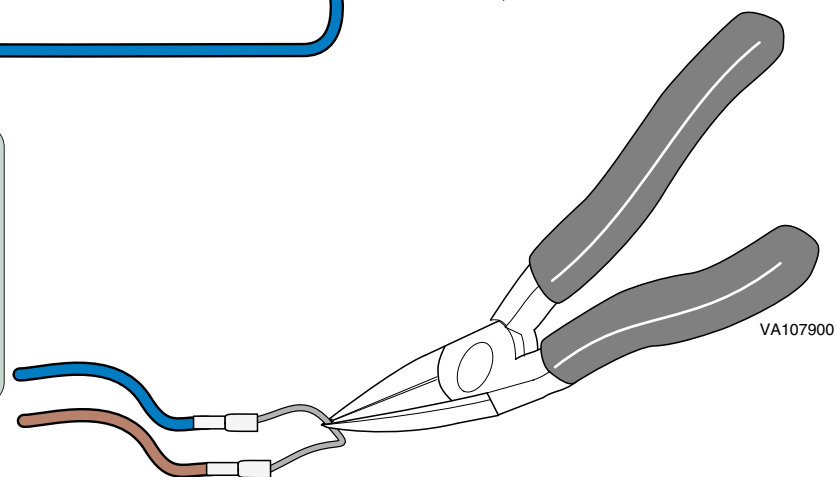


### By-Pass Safety Switch...

**Step 3:**

- Disconnect wires from switch.
- Bend a paper clip into a "U" shape. Hold paper clip with insulated needle nose pliers.
- Insert paper clip ends into wire terminals.

*Note: Table should move down when switch is jumped. Bypass each safety switch to find nonworking switch.*



Models:  
Serial Numbers:

CMWO & CMWS  
All

Safety Switch

B-11



# Testing & Repair

## Hand Control

### Function and Location

The only control available for the wet table is the hand control which is used to raise and lower the work surface.

The location to connect the hand control to the table is on the top left side of the column.

The hand control has continuous current flow that travels to the control box through separate wires.

When a direction is selected, the signal voltage is interrupted. This sends a signal to the control box activating the actuator, lifting the work surface up or down.

Refer to:	Page
Hand Control Test .....	B-11
Exploded Views / Part Numbers .....	E-1



VA106300



VA103900p

## Hand Control

### Test

**Step 1:** Check to see if LED light on control box is on.

*Note: You have to place your finger in front of the LED light. See if the light shines on your finger nail. If there is no light check Control Box.*

**Step 2:** Unplug the hand control cord.

Refer to:

Control Box ..... B-4

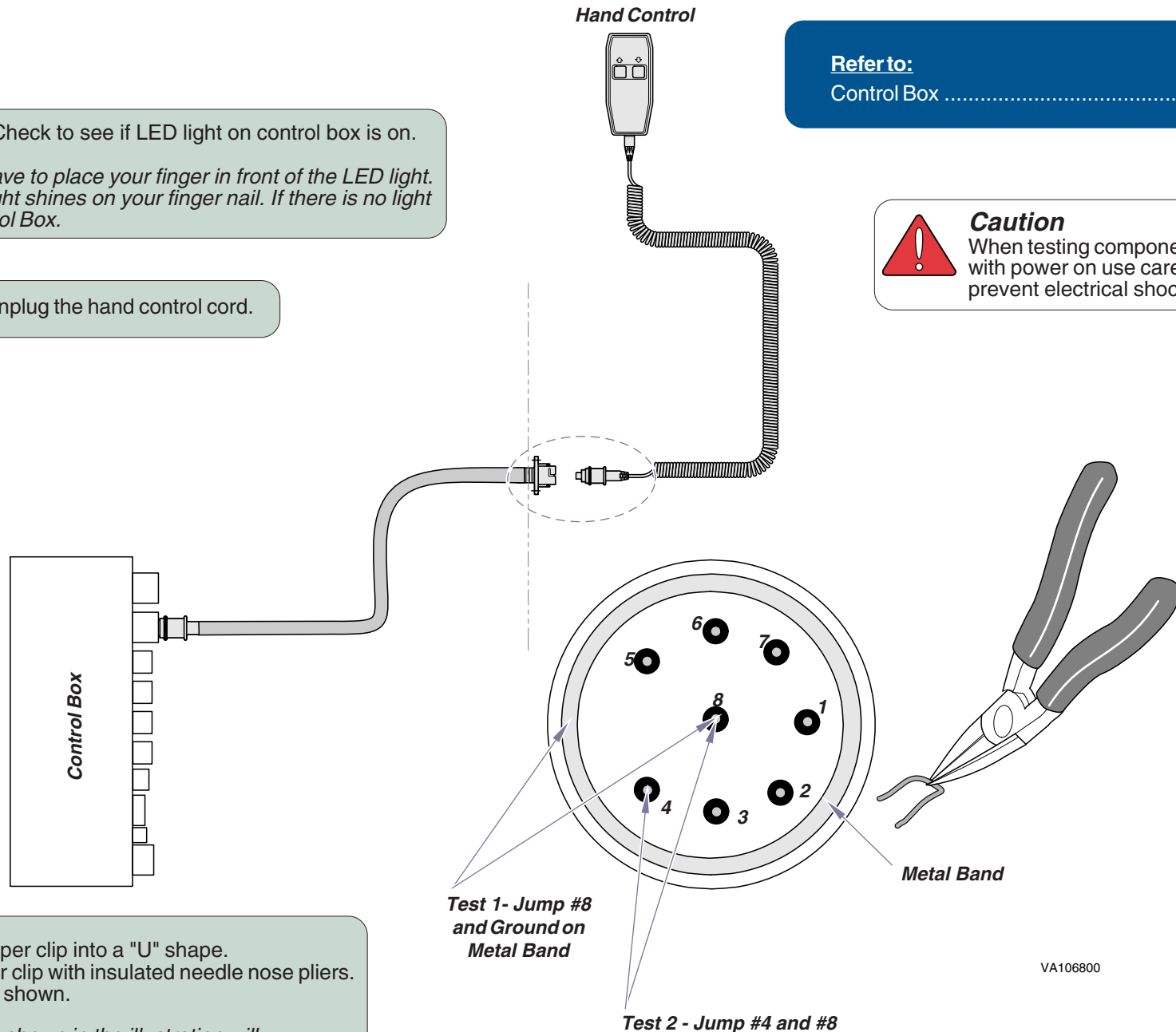
Page

B-4



### Caution

When testing components with power on use care to prevent electrical shock.



VA106800

**Models:** CMDT & CMDT-WS (45 & 60)  
**Serial Numbers:** All

Hand Control

# Testing & Repair

## Limit Switch

### Function and Location

The limit switch is located on the inside of the column and prevents the work surface from lowering beyond a certain point. The control box reduces the voltage supplied to the switch to 24 VDC.

Refer to:	Page
Limit Switch Adjustment .....	B-15
Exploded Views / Part Numbers .....	E-1

(Older version shown)



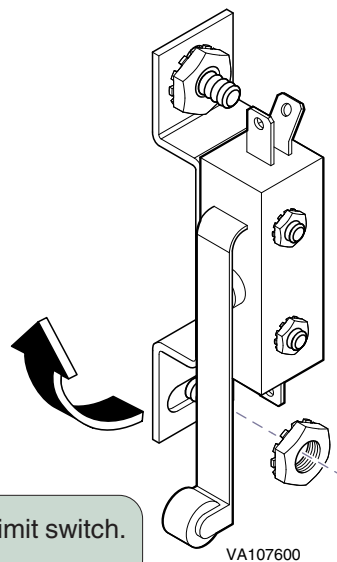
## Limit Switch

### Adjustment

Refer to:	Page
Section C: Access Procedures .....	C-1
Exploded Views / Part Numbers .....	E-1

**Step 1:** Raise Table to maximum height.

**Step 2:** Remove back panel from column.  
*Refer to: Section C Back Panel*



**Step 3:** Remove bottom nut on limit switch bracket.

**Step 4:** Swing bracket forward to adjust limit switch.  
Tighten nut.

**Step 5:** Lower table to verify limit switch adjusted height.  
Adjust again if necessary.  
Install back panel.

# Testing & Repair

## Receptacle

### Function and Location

The wet table is equipped with a Duplex receptacle with 125VAC, Ground Fault Circuit Interrupter (GFCI). This provides additional safety from ground faults. These can be used for variety electronic devices.

The GFCI should be checked monthly by pressing the TEST button to see that it trips the GFIC. Pressing the RESET button should restore power to the GFCI. A GFCI receptacle does not protect against circuit overloads, short circuits, or shocks.

If the GFCI has tripped and can no longer be reset, it has reached it's "end of life" and will no longer provide power. It must be replaced with a new GFCI receptacle.  
Troubleshooting Tips

GFCI's contain a lockout feature that will prevent reset if:

- There is no power being supplied to the GFCI.
- The GFCI is miswired due to reversal of the LINE and LOAD leads.
- The GFCI cannot pass its internal test, indicating that it may not be able to provide protection in the event of a ground fault.

Refer to:	Page
Receptacle Test .....	B-17
Exploded Views / Part Numbers .....	E-1

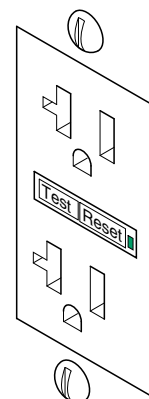


## Receptacle

### Test

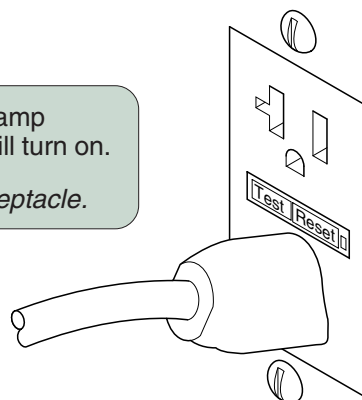
**Step 1:** Plug table in.  
Press reset button on receptacle.

*Verify light on receptacle goes out, if not replace receptacle.*



**Step 2:** Plug an electrical device such as a lamp  
or radio to each outlet and verify it will turn on.

*If electrical device does not turn on, replace receptacle.*



VA106700

# Testing & Repair

## Pump

### Function and Location

The wet table is equipped with a pump, located at the bottom rear of the column. The pump is activated by a water sensor located prior to the inlet of the pump. When the water sensor stops detecting water movement, the system timer allows the pump to run three additional seconds. This will ensure the table has been drained completely. The pump is powerful enough to move waste liquids to a floor, sink or wall drain.

Refer to:	Page
Test Pump .....	B-19
Exploded Views / Part Numbers .....	E-1

<a href="http://www.midmark.com">www.midmark.com</a> :	File Name
Pump Replacement .....	003-1801-00

*\*Replacement instructions are provided with the part. They are also available on [documark.com](http://documark.com), or by clicking on the link in the blue box.*





## Pump

### Test

**Step 1:** Remove back panel from column.  
Refer to: Section C Back Panel

*Note: If pump is running and not pumping water, replace pump.  
If water sensor light is on but pump isn't running, continue with Step 2.*

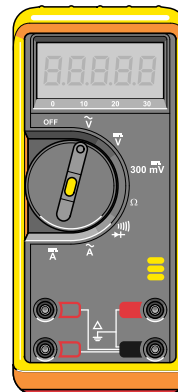
**Refer to:** Section C: Access Procedures ..... C-1  
**Page**

**Step 2:** Set meter to  $\tilde{V}$ .

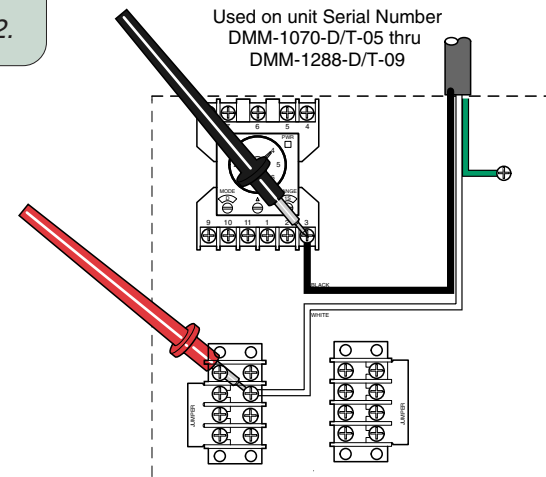


### Caution

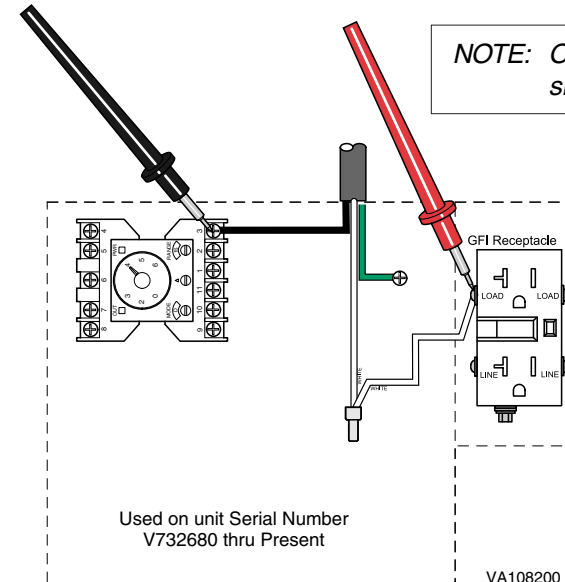
When testing components with power on use care to prevent electrical shock.



**Step 3:** Check voltage.



**NOTE:** Only Pump wires are shown for clarity.



Reading	Status	Required Action
115 Volts		Pump OK
< 115 Volts		Replace Pump

**Models:** CMDT & CMDT-WS (45 & 60)  
**Serial Numbers:** All

**Pump**



# Testing & Repair

## Screen & Water Hose

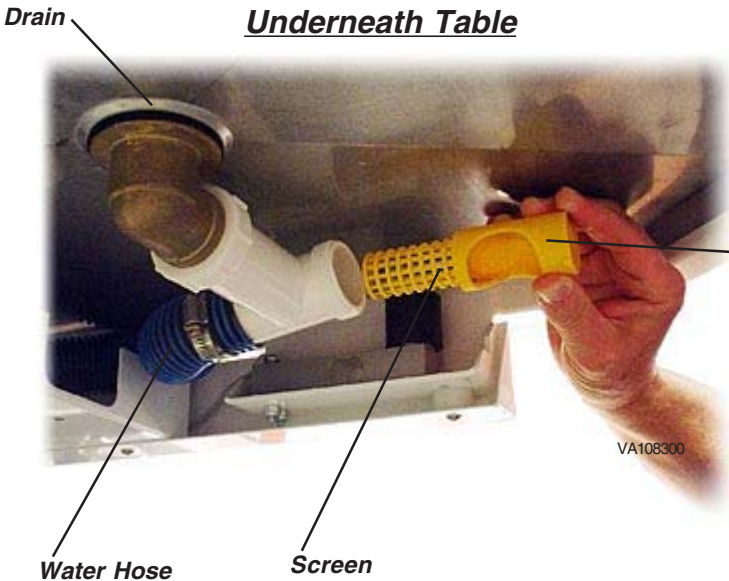
Refer to:	Page
Clean Screen .....	B-21

### Function and Location

The water screen is located behind the transparent end cap located underneath the drain pan. Water collected in a drain pan is strained through the screen and serves to catch hair, teeth, needles and other solids.

The screen may need to be cleaned several times a day depending on types of procedures performed on the table. A clean screen will allow the table to drain properly and protects the pump, water hose and drain line from obstructions and damage.

The 3" water hose connects between the drain pan's drain assembly and the PVC elbow assembly which houses the water sensor and then connects to the pump inlet. The pump outlet hose connects to the 1/2" female outlet fitting on the back of the table. Water then drains to the facility's waste water system from this location.

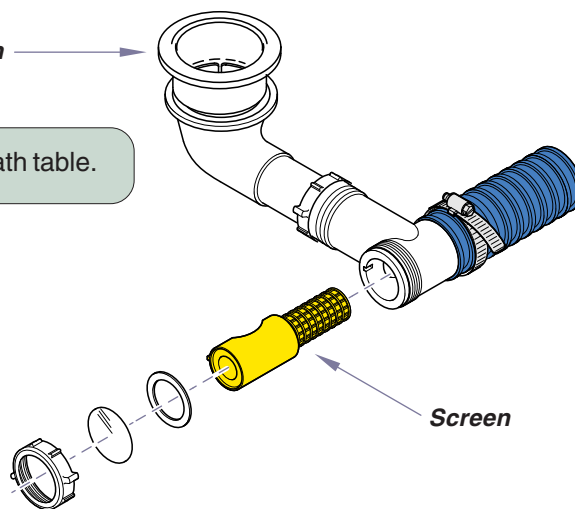


## Screen & Water Hose

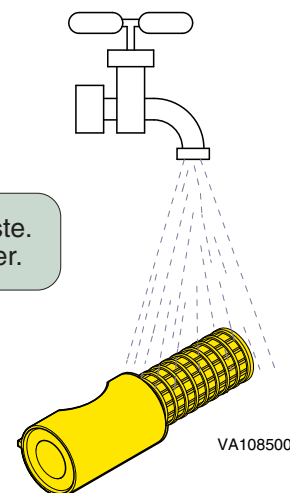
Clean

Drain

**Step 1:** Remove screen from underneath table.



**Step 2:** Remove any solid waste.  
Rinse screen with water.



**Step 3:** Install screen back into drain piping.

**Models:** CMDT & CMDT-WS (45 & 60)  
**Serial Numbers:** All

Screen & Water Hose

B-21

# Testing & Repair

## Water Sensor

### Function and Location

The water sensor is located at the rear of the table prior to the inlet of the pump. As water flows down thru the drain hose, it activates the water sensor which starts the pump. Whenever the sensor monitors water running past it the pump will remain activated.

When the sensor no longer detects water, the timer is activated which continues to run the pump for 3 seconds. This allows any remaining water to be purged out of the system.

Refer to:

Page

Adjustment (Old)

B-23

Adjustment (Current)

B-24

Exploded Views / Part Numbers

E-1

www.midmark.com:

File Name

Serial Numbers DMM-1475-D/T Thru Present

\*Use Water Sensor Replacement 003-1939-00

Serial Numbers DMM-1070-D/T Thru DMM-1474-D/T-06

\*Use Water Sensor Replacement 003-1939-00

*\*Replacement instructions are provided with the part. They are also available on [documark.com](http://documark.com), or by clicking on the link in the blue box.*



(Older version shown)

## Water Sensor

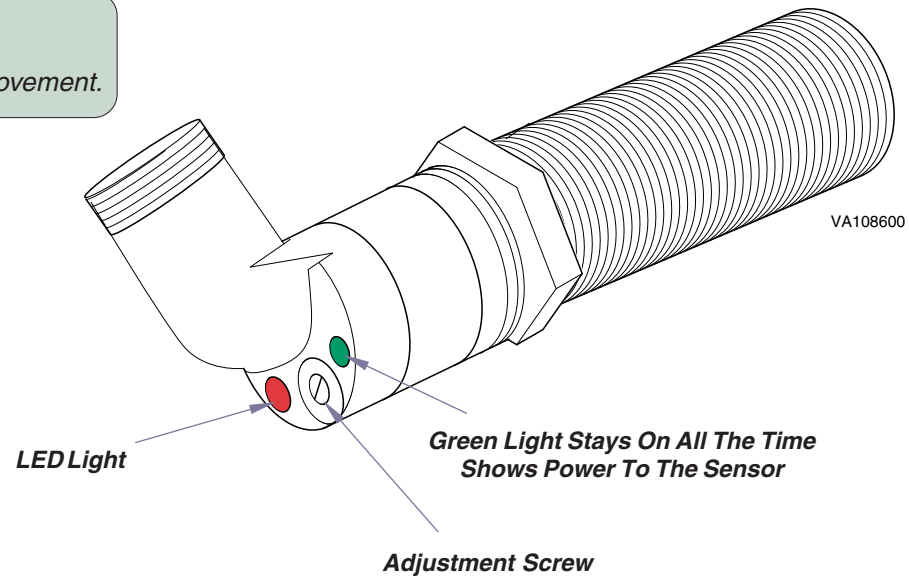
*Adjustment (Older version only)*

**Refer to:** Page  
Section C: Access Procedures ..... C-1

**Step 1:** Remove back panel from column.  
*Refer to: Section C Back Panel*

**Step 2:** Look for the LED light on water sensor.

*Note: Water sensor light comes on when it detects water movement.*



**Step 3:** Turn the adjustment screw clockwise until the LED light and pump turn on.

**Step 4:** Slowly continue turning the adjustment screw counterclockwise for two to three additional turns after the light turns off.

**Step 5:** Run some water into the pump.

*Note: It should cycle on and off as the water is drained. If not, try readjusting the sensor. If it still isn't working, replace the water sensor.*

**Models:** CMDT & CMDT-WS (45 & 60)  
**Serial Numbers:** All

**Water Sensor**

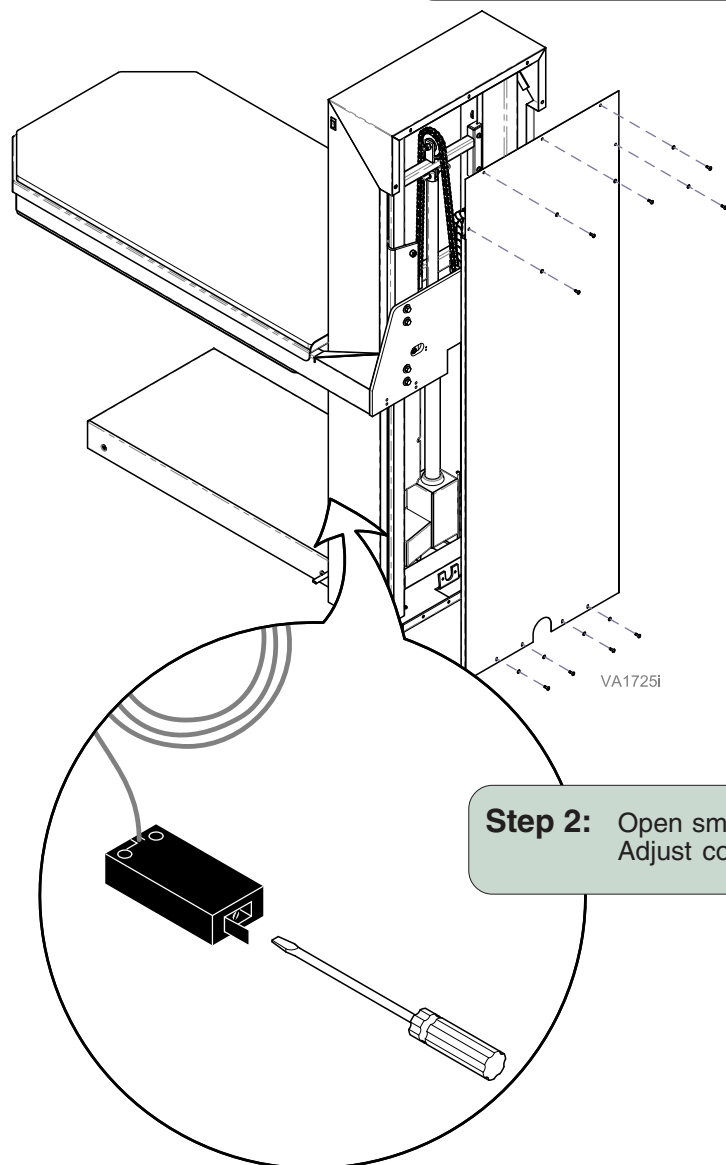
# Testing & Repair

## Water Sensor

Adjustment (Current version only)

**Step 1:** Remove back panel from column.  
Refer to: Section C Back Panel

**Refer to:** Page  
Section C: Access Procedures ..... C-1



**Step 2:** Open small door on water sensor to access adjustment screw.  
Adjust counter-clockwise to decrease sensitivity and clockwise to increase sensitivity.

**Step 3:** Run some water into the pump.

*Note: It should cycle on and off as the water is drained.  
If not, try readjusting the sensor. If it still isn't working,  
replace the water sensor.*

Water Sensor

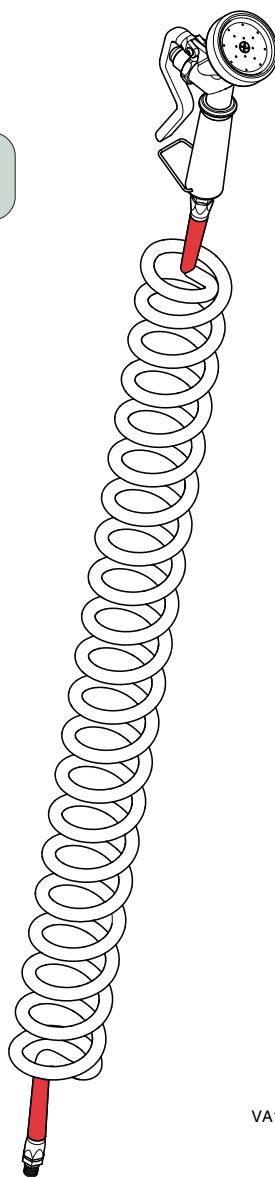
**Models:** CMDT & CMDT-WS (45 & 60)  
**Serial Numbers:** All

## Spray Nozzle and Hose Assembly

Check

Refer to: [Page](#)  
Exploded Views / Part Numbers ..... E-1

**Step 1:** If spray hose is leaking, replace with new nozzle and hose assembly with 3" red fittings .



VA108700

**Models:** CMDT & CMDT-WS (45 & 60)  
**Serial Numbers:** All

Water Sprayer

B-25

# Testing & Repair

## Scale

### Function and Location

The scale which is optional on both the dry and wet tables incorporates four load sensors located under the table top surface.

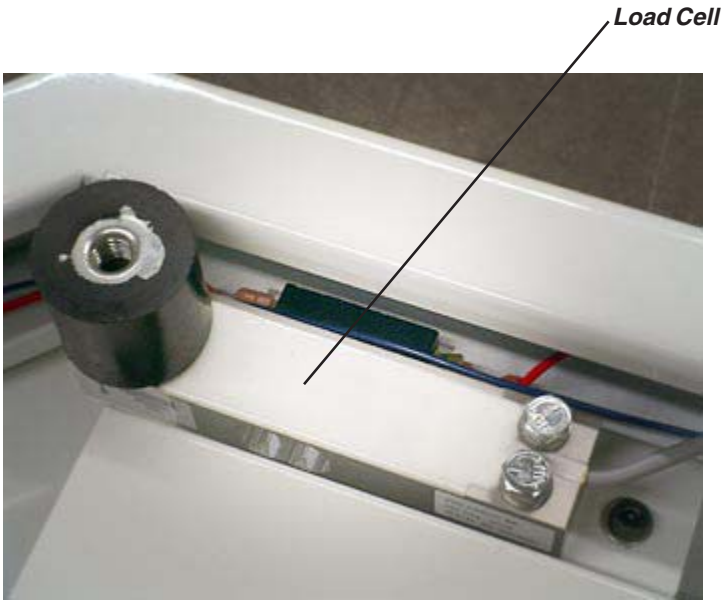
The scale provides a continuous weight that is accurate to + or - 0.1 lbs. The display is located on the front of the column near the top.

<u>Refer to:</u>	<u>Page</u>
Calibrate Scale .....	B-27-B-29
Scale (Transformer) .....	B-30
Scale (Load Cells) .....	B-31
Scale (Display) .....	B-32
Exploded Views / Part Numbers .....	E-1

<u>www.midmark.com:</u>	<u>File Name</u>
*Scale Transformer Replacement...003-1799-00	

*\*Replacement instructions are provided with the part. They are also available on midmark.com, or by clicking on the link in the blue box.*





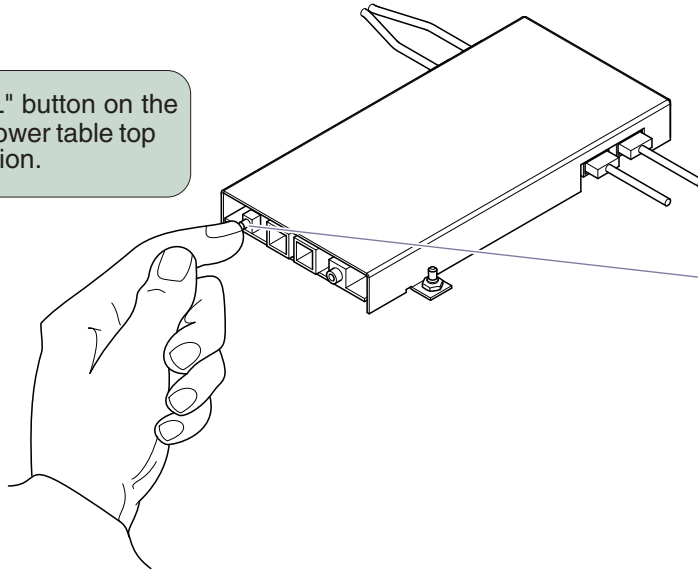
## Scale

### Calibration

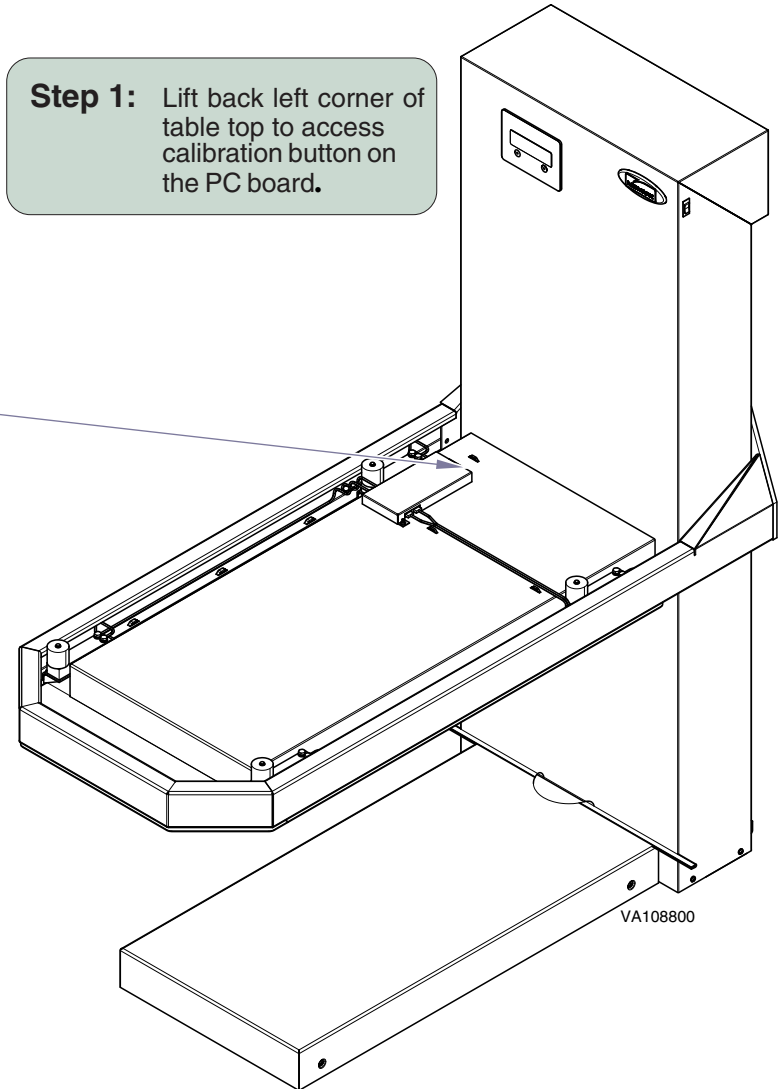
**NOTE:** 50 lb Weight is Required for Calibrating Scale.  
Selections shown in graphics are factory default settings.

**Refer to:** Section C: Access Procedures ..... C-1  
**Page**

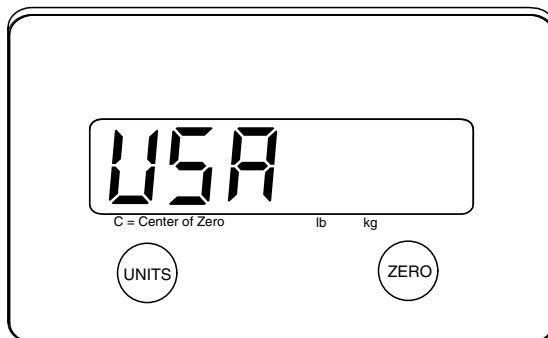
**Step 2:** Press the "CAL" button on the PC board and lower table top back in to position.



**Step 1:** Lift back left corner of table top to access calibration button on the PC board.



**Step 3:** Select "USA" (100%) or "CAN" (2% zero range) by pressing UNIT button. Lock in selection by pressing ZERO button.



Continue on Next Page with Step 4

**Models:**  
**Serial Numbers:**

**Accessory**  
**Optional**

**Scale**  
**(Calibration)**



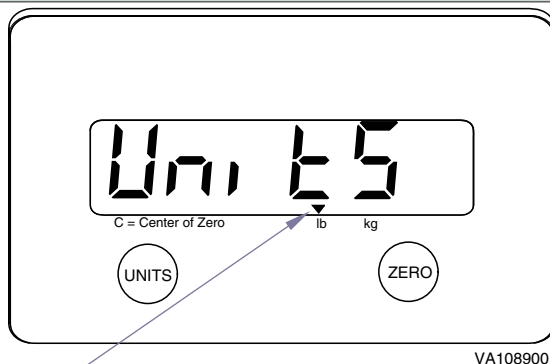
# Testing & Repair

## Scale

### Calibration - continued

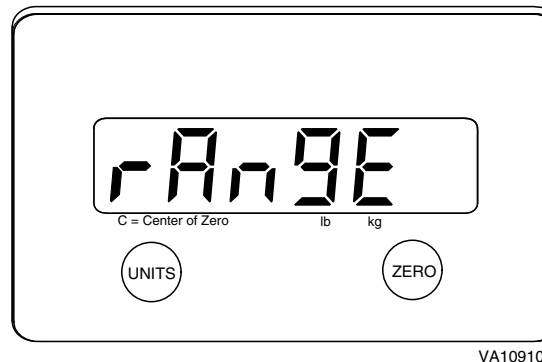
**Step 4:** Select "lbs"[\*] or "kg" by pressing UNIT button.  
Lock in selection by pressing ZERO button.

*Note: To have both unit types available for use, select unit button until the selection arrow is above both "lbs" and "kg", then lock in selection by pressing ZERO button.*



*Arrow Changes Selection Between "lbs" or "kg".*

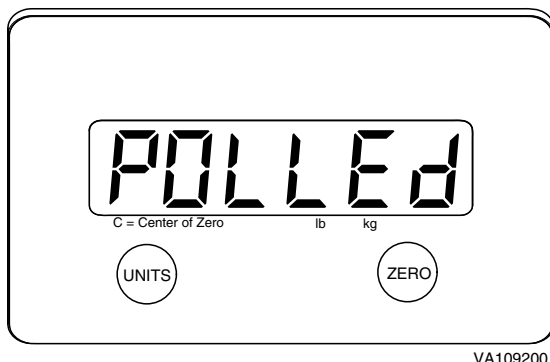
**Step 5:** Select "RANGE" [\*] (enable) or "norAng" (disable) by pressing UNIT button. Lock in selection by pressing ZERO button.



**RANGE = 0-30 lbs by 0.1 lbs**  
**30-70 lbs by 0.2 lbs**  
**75-300 by 0.5 lbs**

**norAng= 0-300 lbs by 0.1 lbs**

**Step 6:** Select "POLLED" [\*] (polled) or "CONT" (continuous) by pressing UNIT button. Lock in selection by pressing ZERO button.



### Output Settings

**POLLED = The Computer Requests the Output by Sending the Scale a "CR" Character (OD HEX).**

**CONT = The Output is Automatically Transmitted Every 0.5 Seconds.**

[\*] Denotes "FACTORY" setting

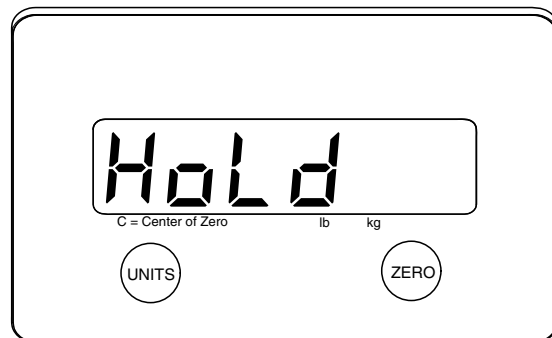
Continue on Next Page with Step 7

## Scale

### Calibration - continued

**Step 7:** Select "nohold" (disabled) or "Hold" [\*] (enabled) by pressing UNIT button. Lock in selection by pressing ZERO button.

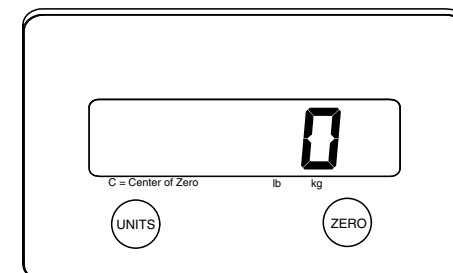
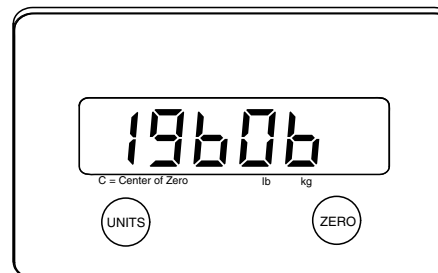
*nohold = Weight will be Normal, but Unstable.*



VA109300

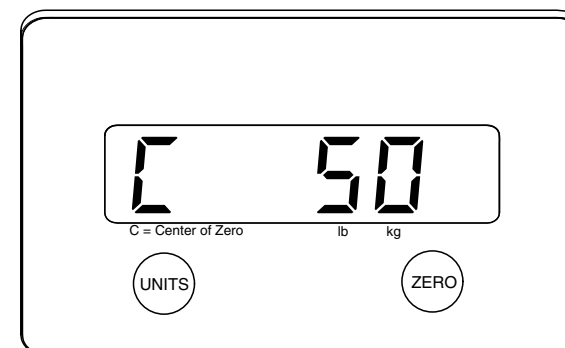
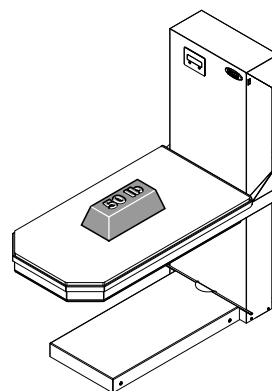
**Hold =** Selecting Hold after 3 Seconds of Stable Weight will Lock the Weight in after Weight is Removed from Scale.

**Step 8:** To Establish Zero Reference Point, unload the dead load count by pressing the ZERO button.



VA109400

**Step 9:** Press the UNIT button to toggle through calibration weights to 50. Load 50 lb weight as evenly as possible. When the amount stabilizes at 50lbs, press ZERO to span the scale. Remove weight, calibration is completed.



VA109500

[\*] Denotes "FACTORY" setting

**Models:**  
Serial Numbers:

**Accessory**  
Optional

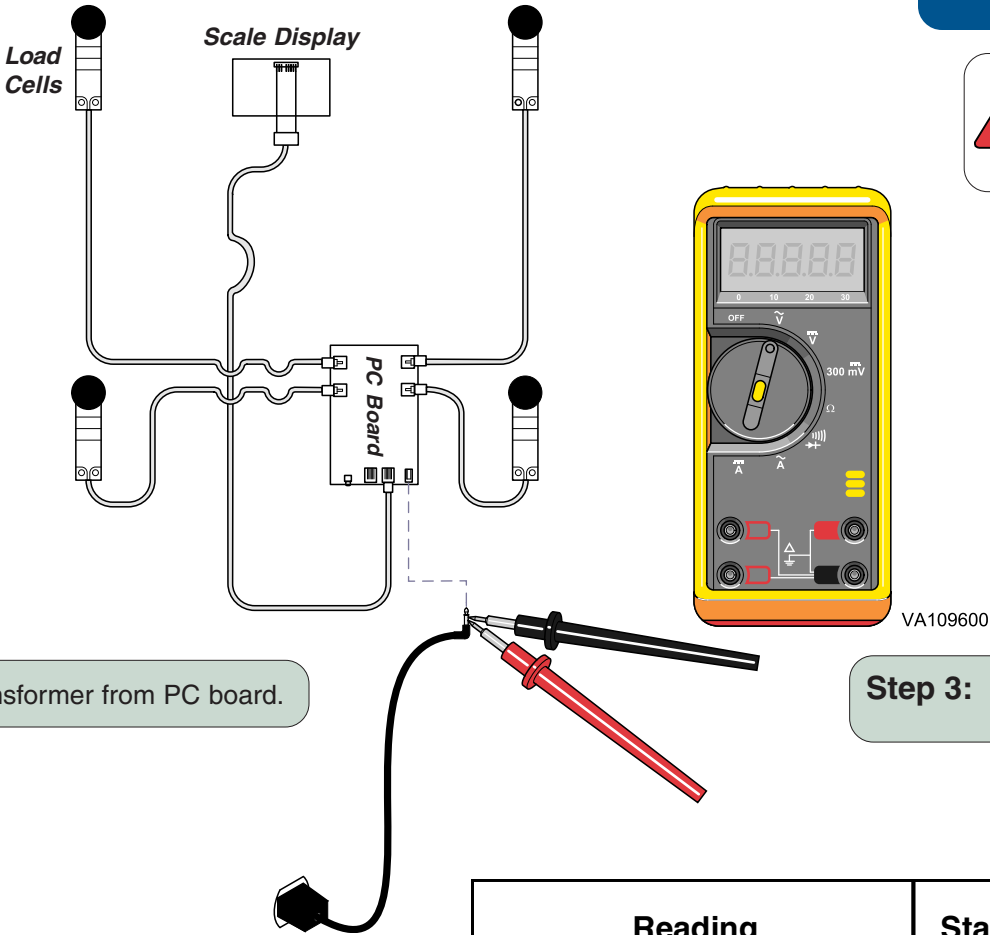
**Scale**  
(Calibration)

# Testing & Repair

## Scale (Transformer)

### Test

**Step 1:** Remove table top to access PC board for scale.  
*Refer to: Section C Table Top*



**Step 2:** Unplug transformer from PC board.

**Step 3:** Check for 12VDC output on the end of transformer cable .

**Caution**

When testing components with power on use care to prevent electrical shock.

**NOTE:** If replacing the transformer, verify the black wire with the faint white line is connected to the red wire.

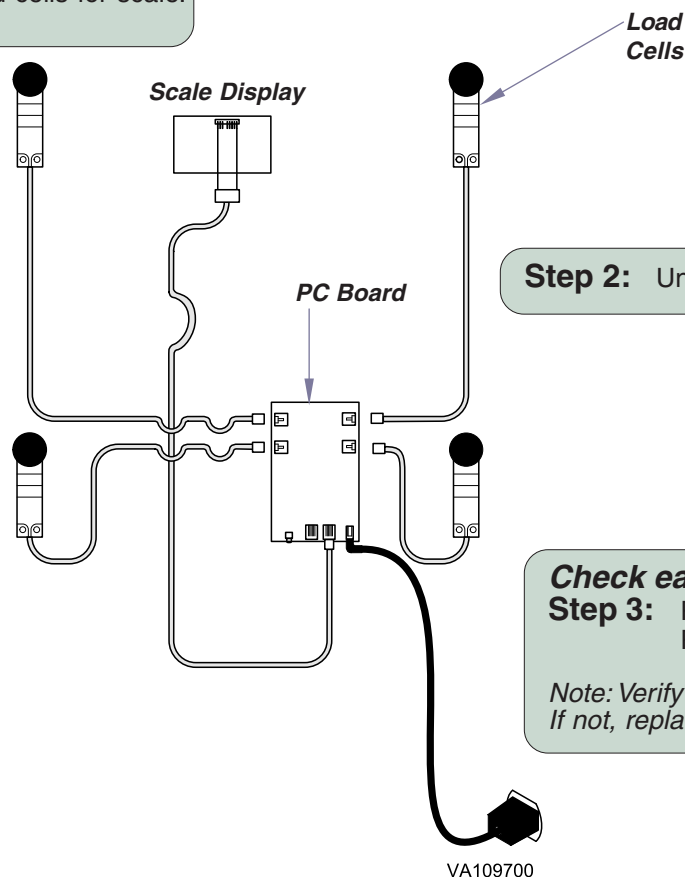
Reading	Status	Required Action
12 VDC		Transformer OK
< 12 VDC		Replace Transformer

## Scale (Load Cells)

### Test

**Step 1:** Remove table top to access load cells for scale.  
Refer to: Section C Table Top

Refer to:	Page
Calibrate Scale .....	B-27
Scale (Transformer) .....	B-30
Scale (Display) .....	B-32
Section C: Access Procedures .....	C-1
Exploded Views / Part Numbers .....	E-1



**Step 2:** Unplug all four load cells at PC board.

### Check each Load Cell...

**Step 3:** Plug in one load cell.  
Press on cell to load.

*Note: Verify each test shows up and down reading on display.  
If not, replace bad load cell. If they all test ok, continue with Step 4.*



### Caution

When testing components with power on use care to prevent electrical shock.

### Calibrate..

**Step 4:** Unplug one load cell at a time and calibrate with other three load cells connected.

*Note: When the defective cell is removed, the unit will calibrate and weigh correctly.*

**Models:**  
Serial Numbers:

**Accessory**  
Optional

**Scale**  
(Load Cells)

# Testing & Repair

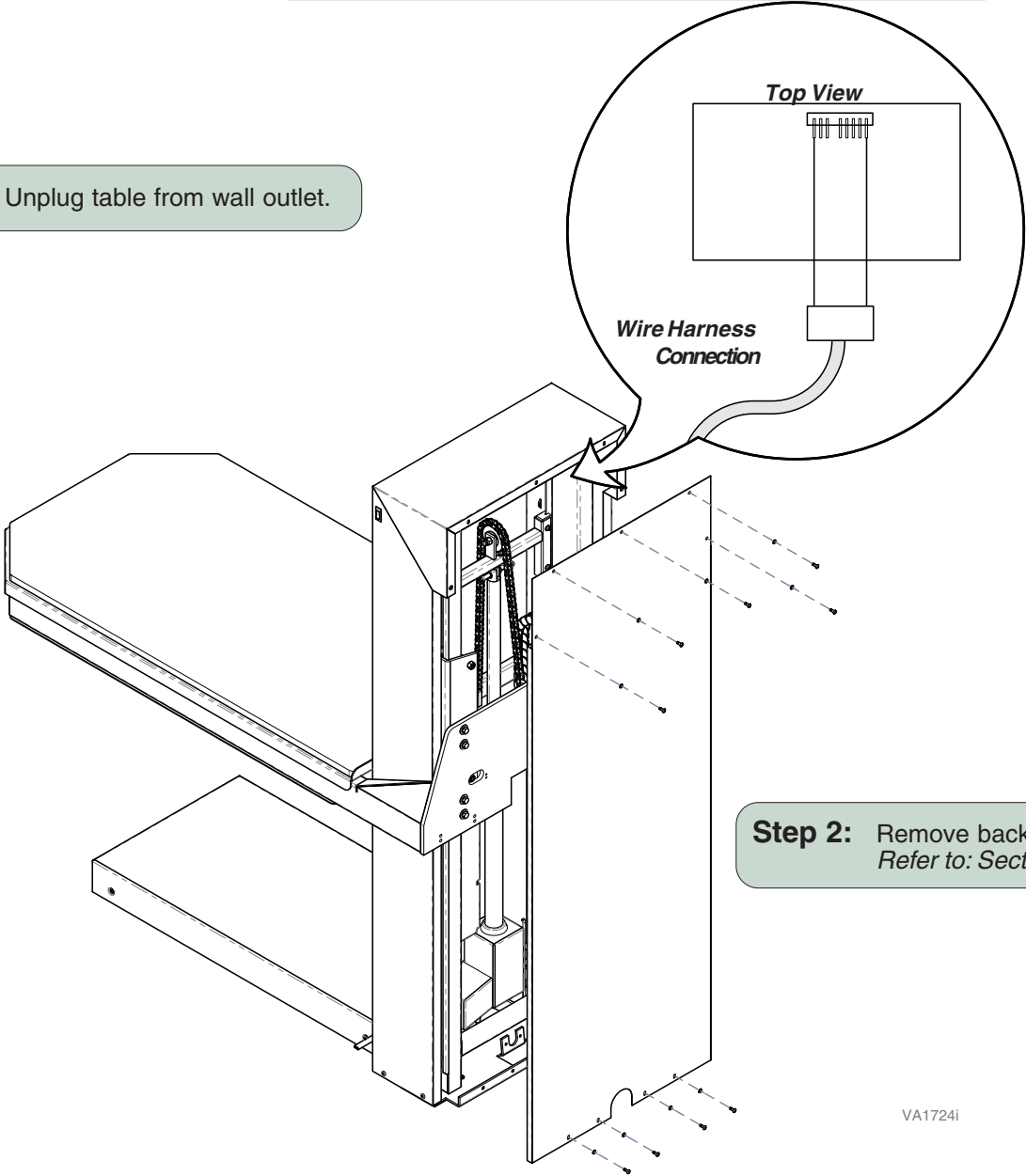
## Scale (Display)

Check

**Step 3:** Locate back of scale display (behind electrical box).  
Verify wire harness from PC board is connected.

Refer to:	Page
Calibrate Scale .....	B-27
Scale (Transformer) .....	B-30
Scale (Load Cells) .....	B-31
Section C: Access Procedures .....	C-1
Exploded Views / Part Numbers .....	E-1

**Step 1:** Unplug table from wall outlet.

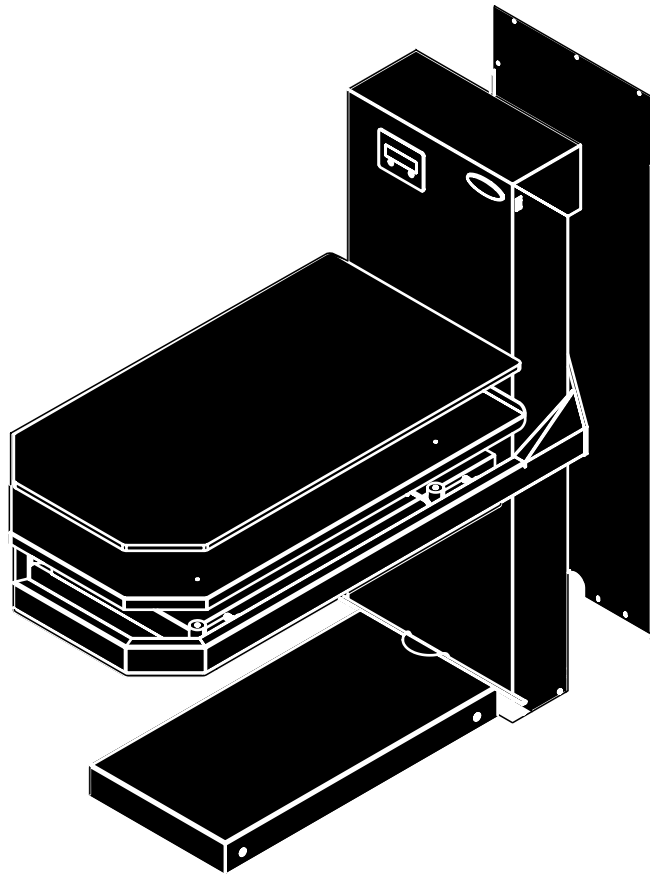


**Step 2:** Remove back panel from column.  
*Refer to: Section C Back Panel*

VA1724i

## ***Access Procedures***

<u>Removing &amp; Installing:</u>	<u>Page</u>
Back Panel .....	C-2
Table Top .....	C-3
Safety Pan (Dry Table Only) .....	C-4



# Access Procedures

## Back Panel

Removal/Installation

*Removal*  
**Step 1:** Remove screws and washers.

*Installation*  
**Step 1:** Install screws and washers.

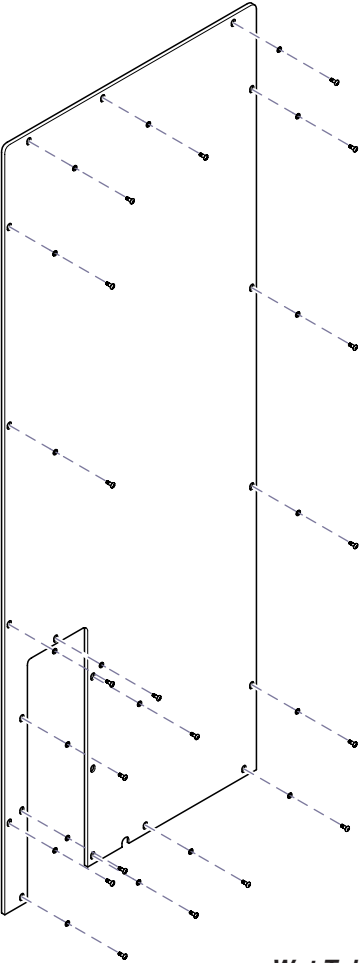
**Refer To:**

**Page**

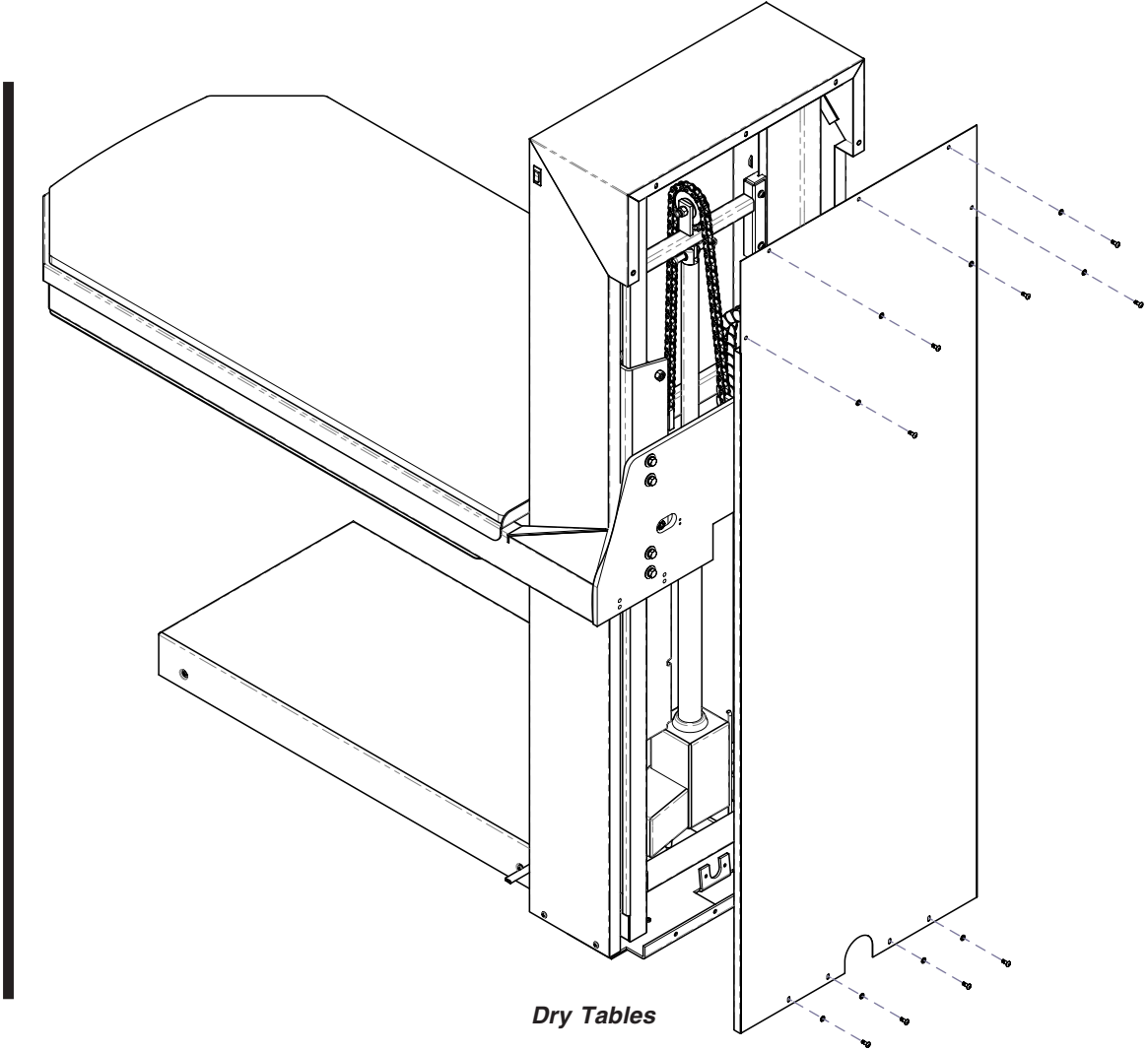
Exploded Views / Part Numbers:

CMW\* (O & S) ..... E-2

CMDT\* (60, WS-60, 45, WS-45) ..... E-3



Wet Tables



Dry Tables



## Table Top

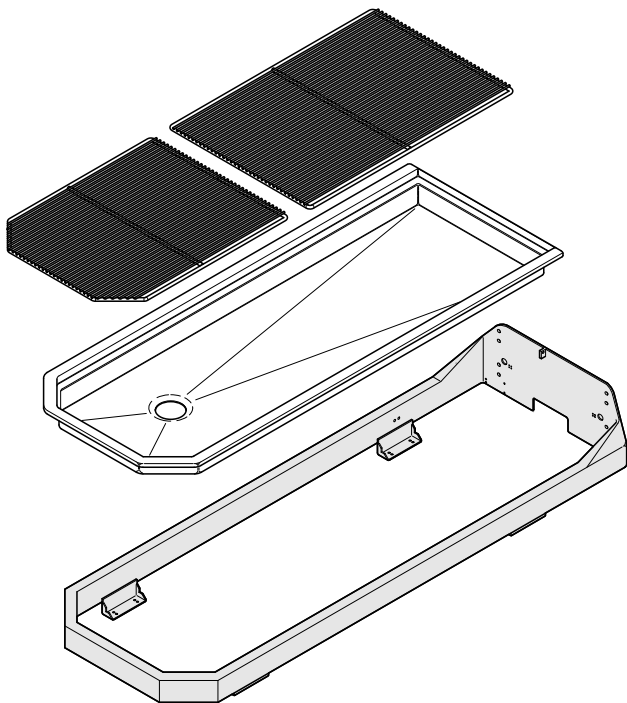
### Removal/Installation

#### Wet Tables

##### Wet Table Top Removal

**Step 1:** Remove grate(s) and drain pan.

*Note: Older model tables have one piece grate.*



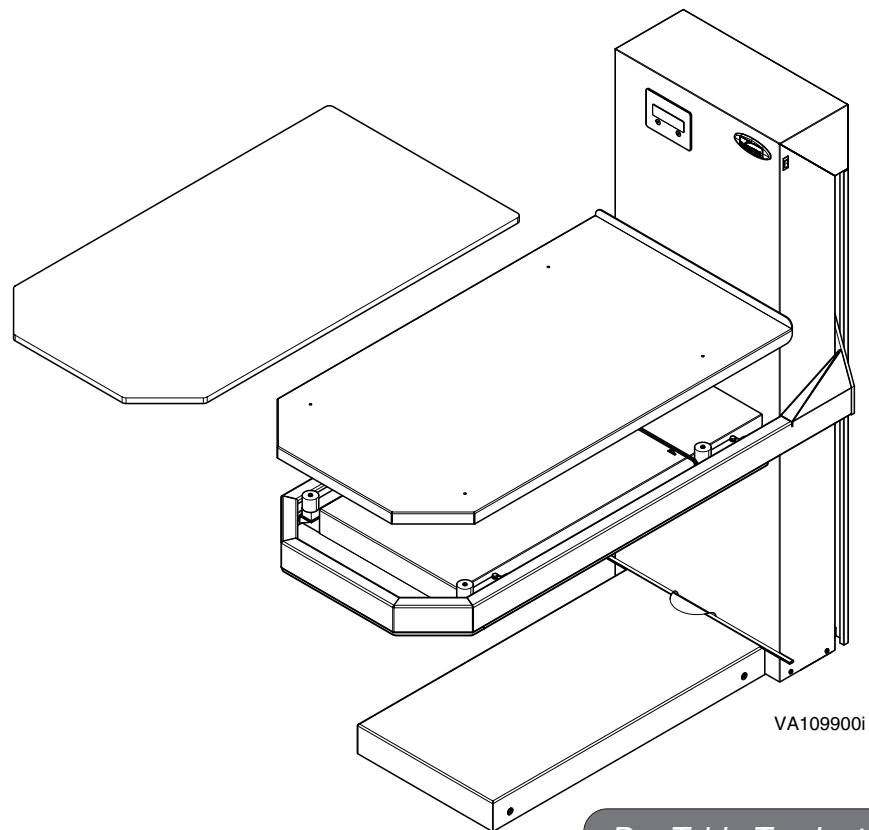
##### Wet Table Top Installation

**Step 1:** Install drain pan and grate(s).

#### DryTables

##### Dry Table Removal

**Step 1:** Remove mat and table top.



##### Dry Table Top Installation

**Step 1:** Install table top and mat.

**Models:**  
**Serial Numbers:**

**ALL**

**Table Top**

#### Refer To:

#### Page

Exploded Views / Part Numbers:

CMW\* (O & S) ..... E-2

CMDT\* (60, WS-60, 45, WS-45) ..... E-3

# Access Procedures

## Safety Pan

### Removal/Installation

#### Removal

**Step 1:** Lift mat off table top.  
Lift table top off rubber mounts.

#### Removal

**Step 2:** Unplug scale connections from PC board. (If Applicable)  
Unscrew safety pan from platform and remove.

#### Installation

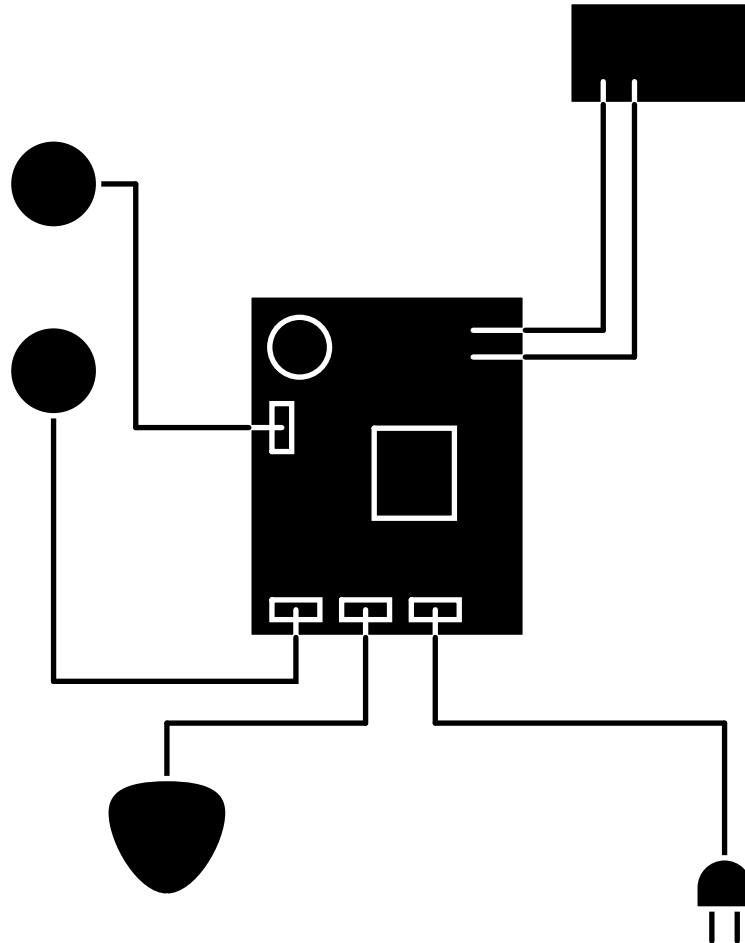
**Step 1:** Screw safety pan to platform.  
Plug scale connections into PC board. (If applicable)

#### Installation

**Step 2:** Seat table top on rubber mounts.  
Place mat on table top.

# Section D

## Wiring Diagrams



### Model

### Page

Dry Tables:

*CMWO w/o Scale* ..... D-2

*CMWS with Scale* ..... D-3

Wet Tables:

*CMDT-45, CMDT-60 w/o Scale* ..... D-4

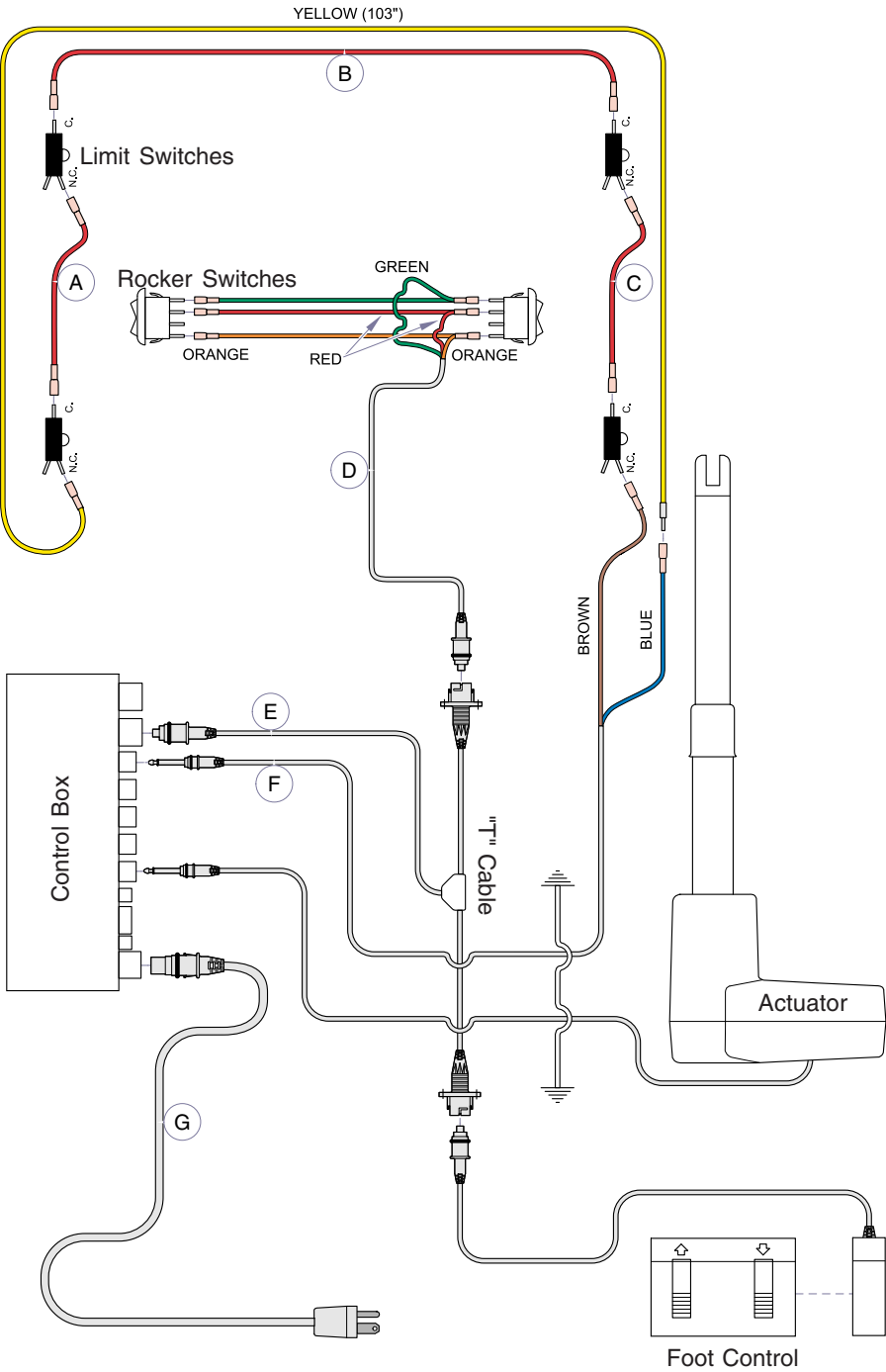
*Electrical Box (w/o scale)* ..... D-5

*CMDT-WS-45, CMDT-WS-60 with Scale* ..... D-6

*Electrical Box (with scale)* ..... D-7

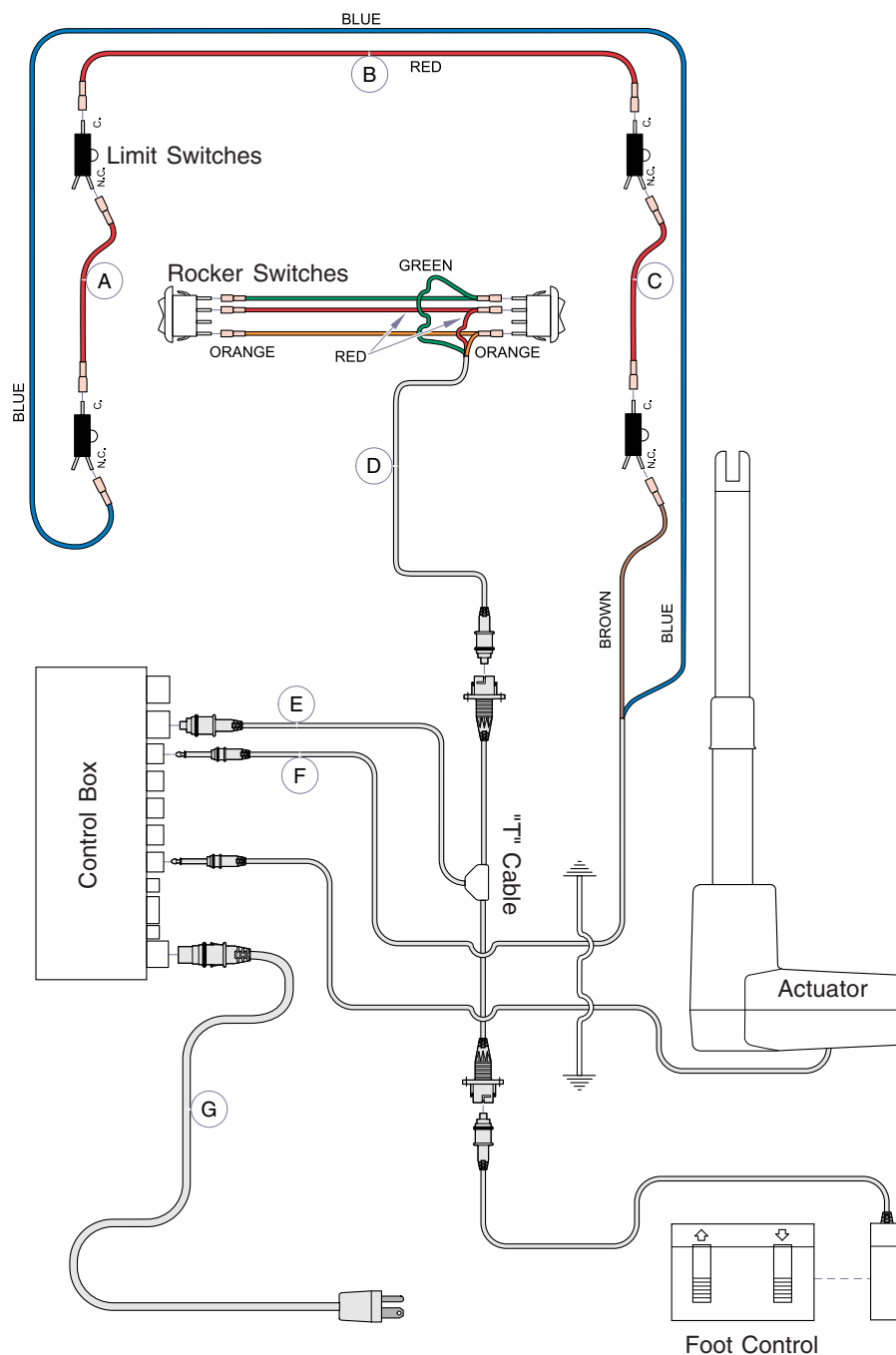
# Wiring Diagrams

Wire Harness	From:	To:	Part Number
A	Limit Switch	Limit Switch	015-0737-23
B	Limit Switch	Limit Switch	015-0737-23
C	Limit Switch	Limit Switch	015-0737-23
D	Rocker Switch	"T" Cable	015-2215-00
E	Control Box	"T" Cable	015-2218-00
F	Control Box	Limit Switchs	015-2207-00
G	Control Box	Outlet	015-2186-00



VA100300f

# Wiring Diagrams



Wire Harness	From:	To:	Part Number
A	Limit Switch	Limit Switch	015-0737-23
B	Limit Switch	Limit Switch	015-0737-23
C	Limit Switch	Limit Switch	015-0737-23
D	Rocker Switch	"T" Cable	015-2215-00
E	Control Box	"T" Cable	015-2218-00
F	Control Box	Limit Switches	015-2207-00
G	Control Box	Outlet	015-2186-00

VA1003011

**Models:**  
**Serial Numbers:**

**CMWO & CMWS**  
DMM-1451-06 thru Present

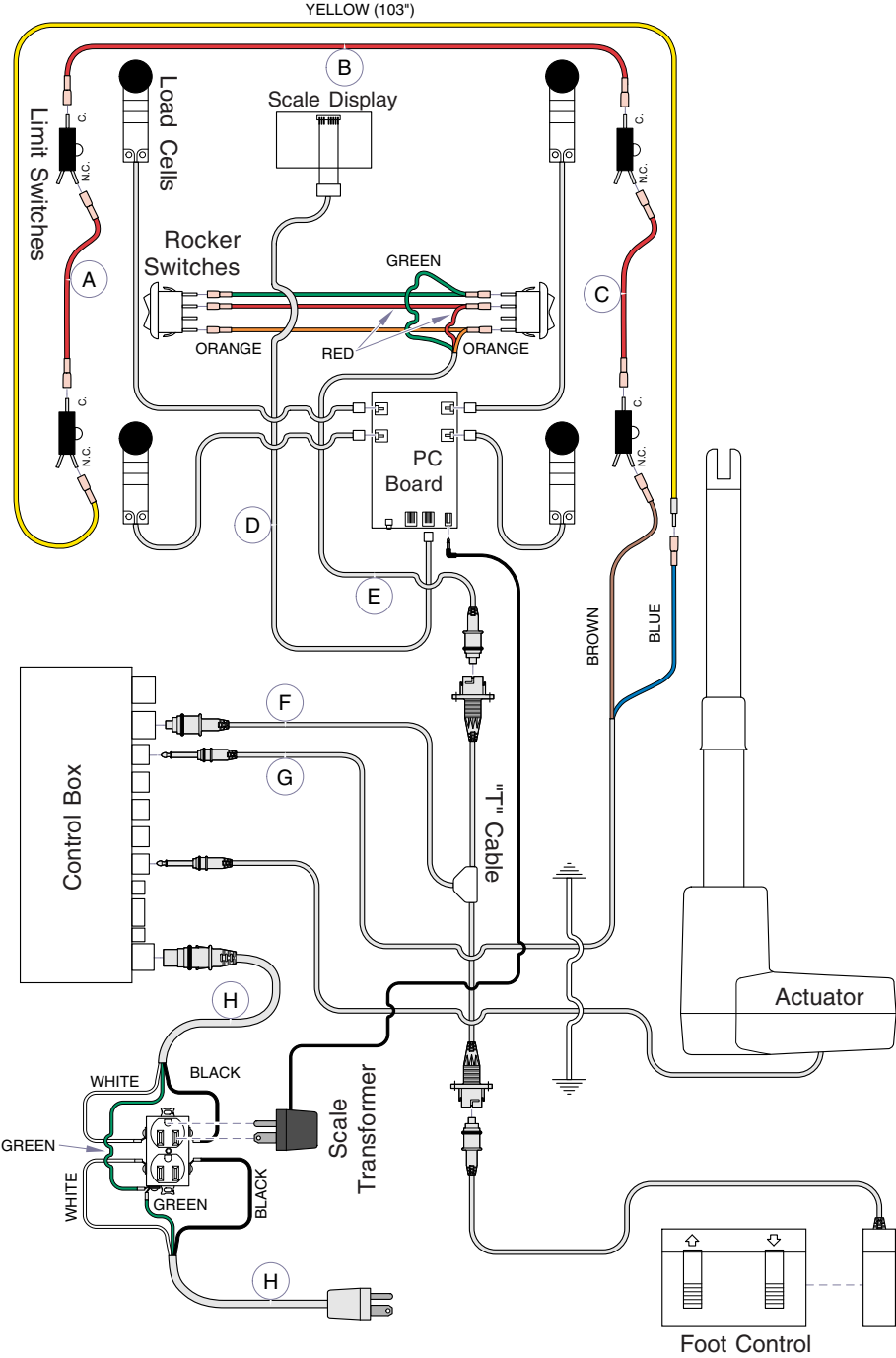
**Dry Table w/o Scale**  
**Wiring Diagram**

**D-2.1**

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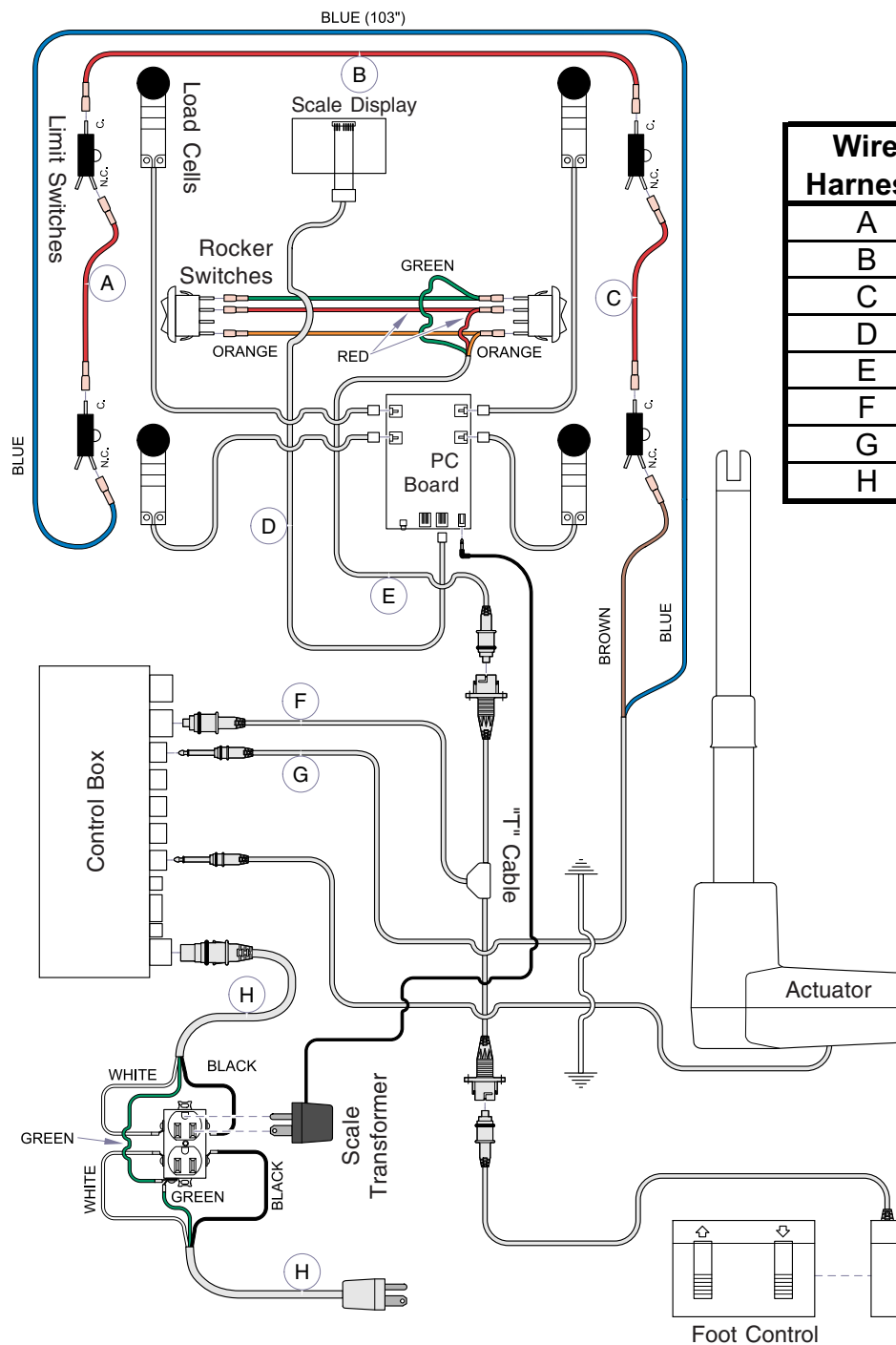
# Wiring Diagrams

Wire Harness	From:	To:	Part Number
A	Limit Switch	Limit Switch	015-0737-23
B	Limit Switch	Limit Switch	015-0737-23
C	Limit Switch	Limit Switch	015-0737-23
D	PC Board	Scale Display	015-2200-00
E	Rocker Switch	"T" Cable	015-2215-00
F	Control Box	"T" Cable	015-2218-00
G	Control Box	Limit Switchs	015-2207-00
H	Control Box	Outlet	029-4142-00



VA100200i

# Wiring Diagrams



Wire Harness	From:	To:	Part Number
A	Limit Switch	Limit Switch	015-0737-23
B	Limit Switch	Limit Switch	015-0737-23
C	Limit Switch	Limit Switch	015-0737-23
D	PC Board	Scale Display	015-2200-00
E	Rocker Switch	"T" Cable	015-2215-00
F	Control Box	"T" Cable	015-2218-00
G	Control Box	Limit Switches	015-2207-00
H	Control Box	Outlet	029-4142-00

**Models:**  
**Serial Numbers:**

**CMWO & CMWS**  
DMM-1451-06 thru Present

**Dry Table with Scale**  
**Wiring Diagram**

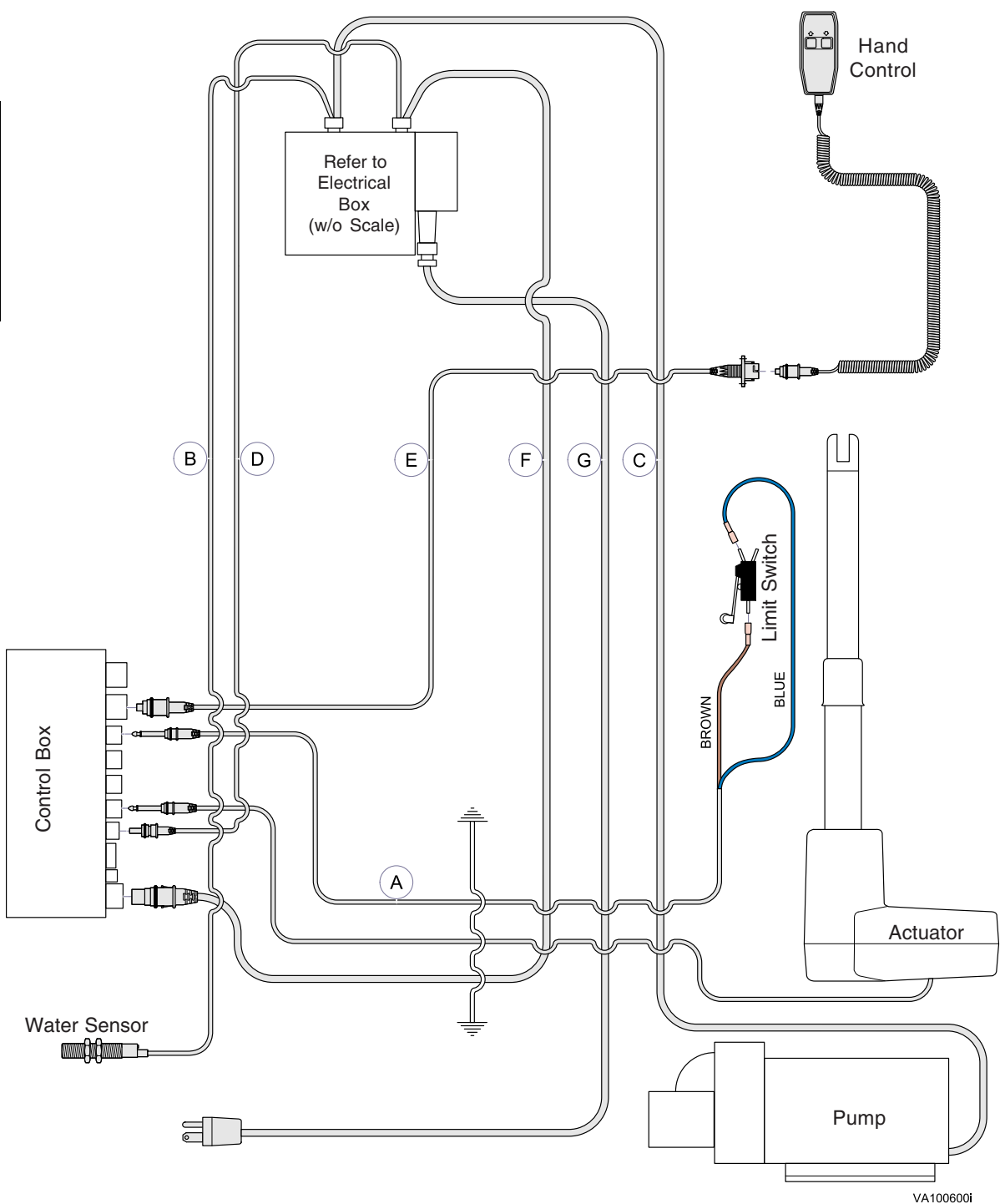
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**D-3.1**

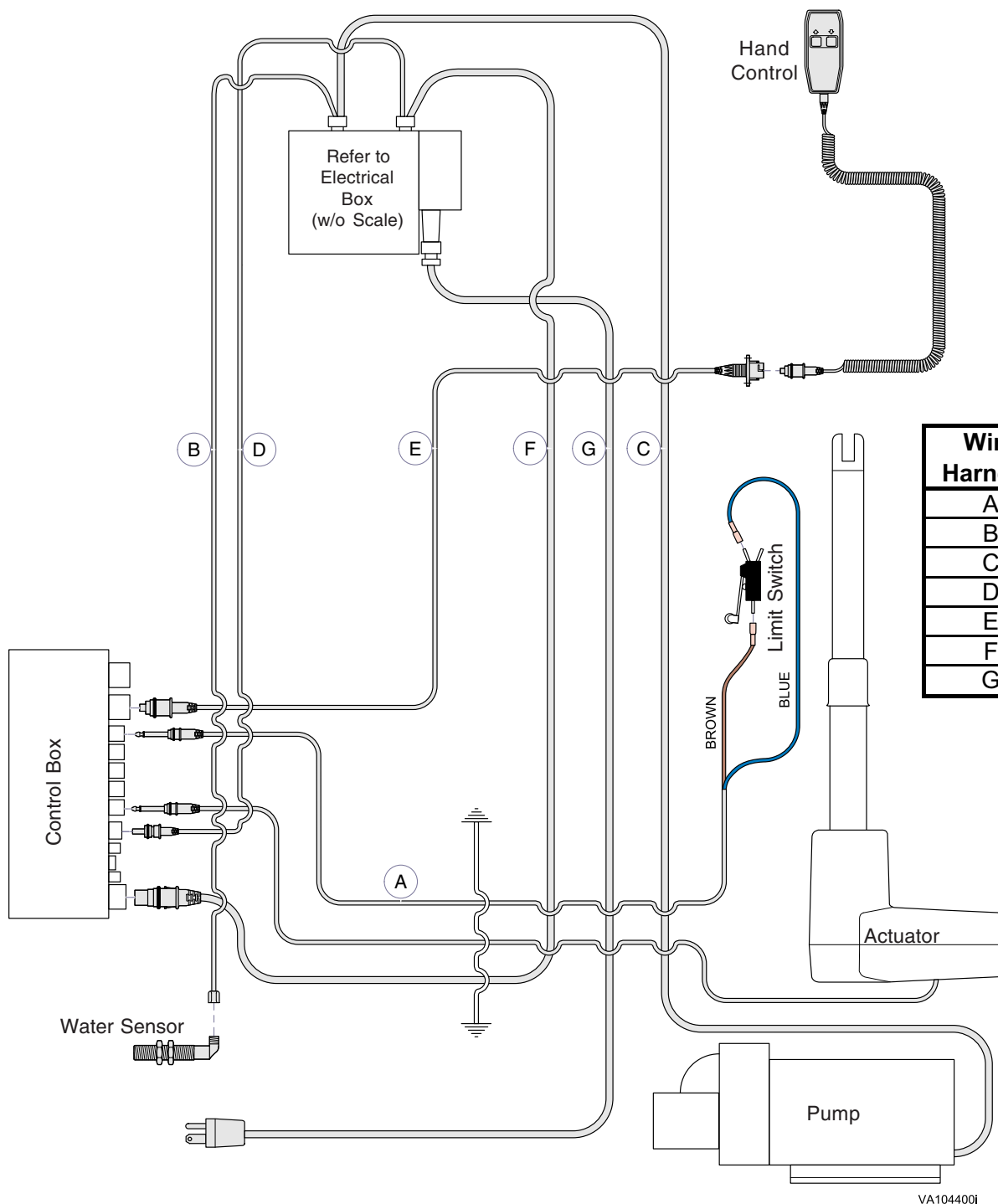


# Wiring Diagrams

Wire Harness	From:	To:	Part Number
A	Control Box	Limit Switch	015-2288-00
B	Electrical Box	Water Sensor	002-1179-00
C	Pump	Electrical Box	015-2289-00
D	Control Box	Timer	015-2275-00
E	Control Box	Hand Control	015-2285-00
F	Control Box	Electrical Box	015-2270-00
G	Electrical Box	Outlet	015-1139-01



# Wiring Diagrams



Wire Harness	From:	To:	Part Number
A	Control Box	Limit Switch	015-2288-00
B	Electrical Box	Water Sensor	015-2262-00
C	Pump	Electrical Box	015-2289-00
D	Control Box	Timer	015-2275-00
E	Control Box	Hand Control	015-2285-00
F	Control Box	Electrical Box	015-2270-00
G	Electrical Box	Outlet	015-1139-01

**Models:**  
**Serial Numbers:**

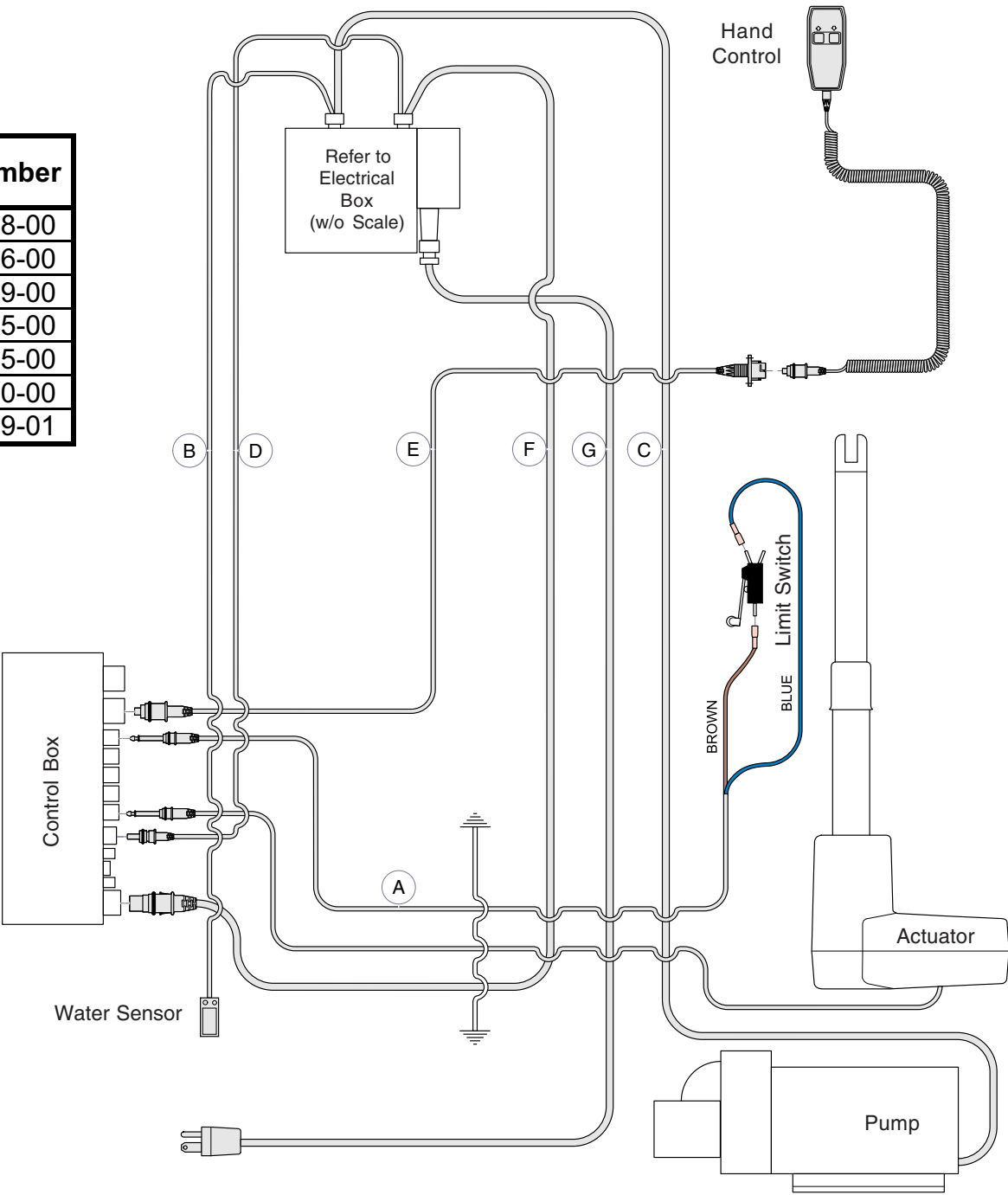
**CMDT & CMDT-WS (45 & 60)**  
DMM-1475-D/T-06 thru DMM-1237-D/T-08

**Wet Table w/o Scale**  
**Wiring Diagram**

**D-4.1**

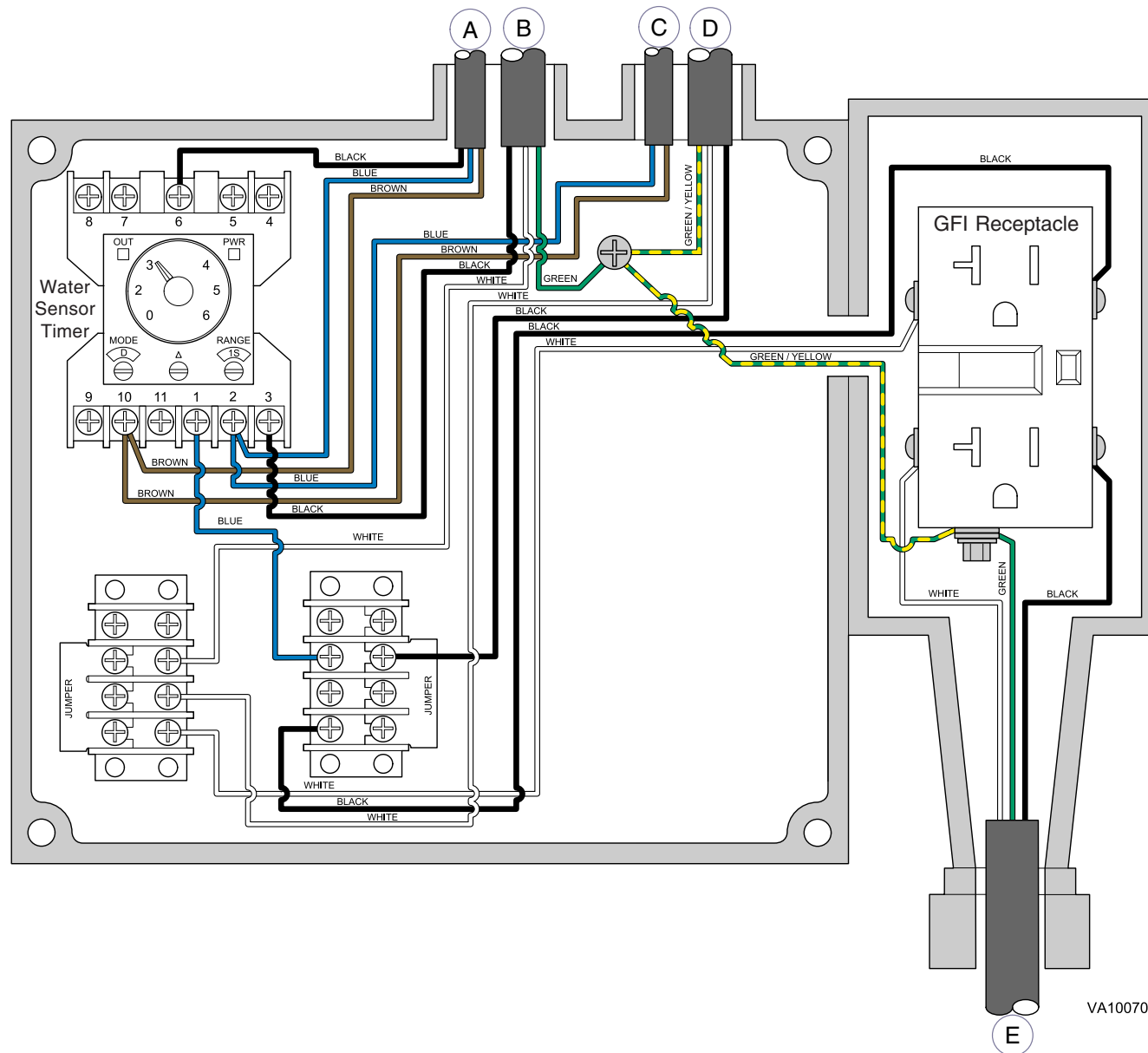
# Wiring Diagrams

Wire Harness	From:	To:	Part Number
A	Control Box	Limit Switch	015-2288-00
B	Electrical Box	Water Sensor	015-2436-00
C	Pump	Electrical Box	015-2289-00
D	Control Box	Timer	015-2275-00
E	Control Box	Hand Control	015-2285-00
F	Control Box	Electrical Box	015-2270-00
G	Electrical Box	Outlet	015-1139-01



VA1044011

# Wiring Diagrams



Wire Harness	From:	Part Number
A	Water Sensor	015-2436-00
B	Pump Motor	015-2289-00
C	Timer Cord	015-2275-00
D	Power Cord	015-2270-00
E	Electrical Cord	015-1139-01

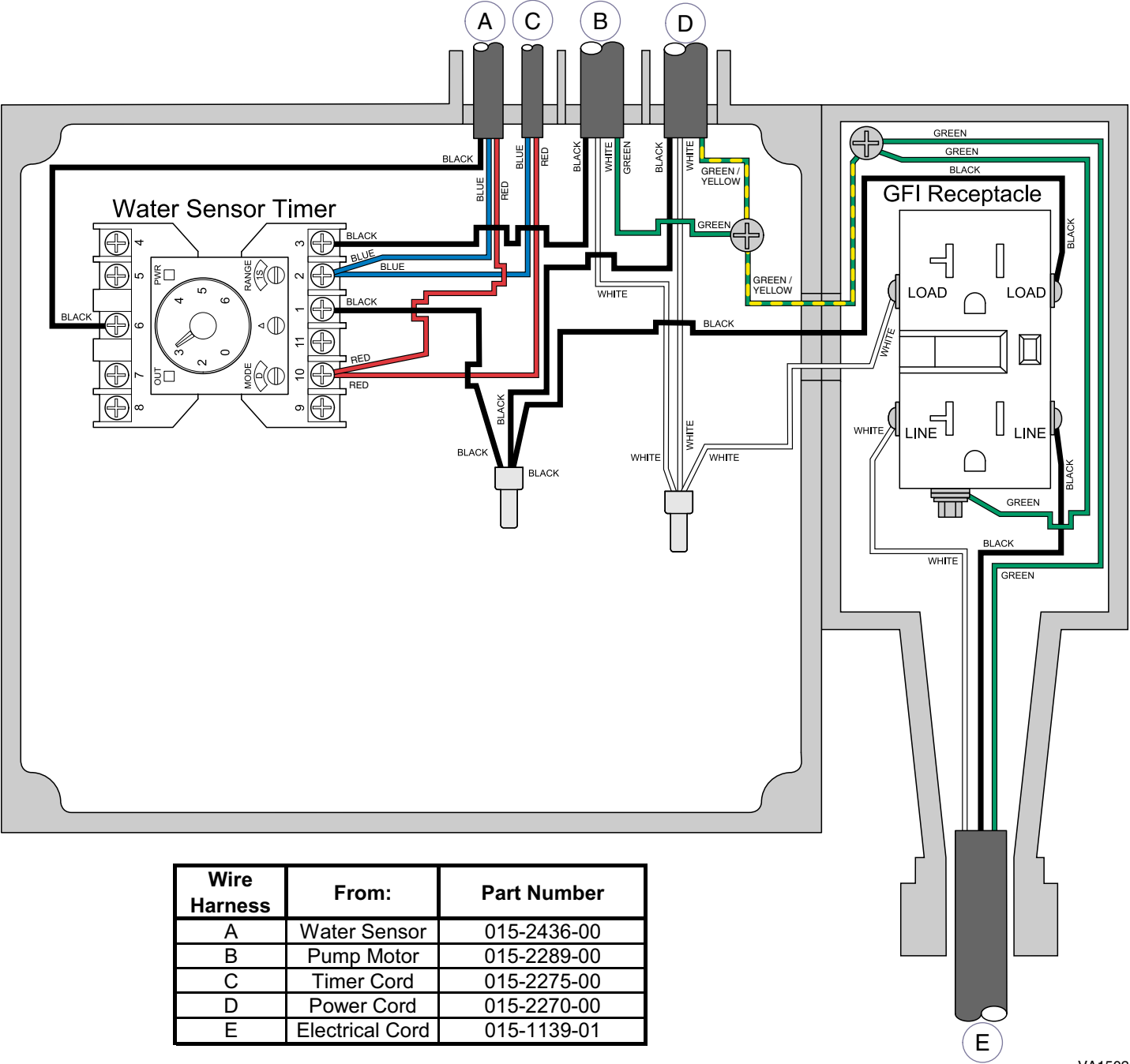
**Models:**  
**Serial Numbers:**

**CMDT & CMDT-WS (45 & 60)**  
DMM-1070-D/T-05 thru DMM-1xxx-D/T-09

**Electrical Box**  
**(units w/o scale)**

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# Wiring Diagrams



VA150201i

D-5.1

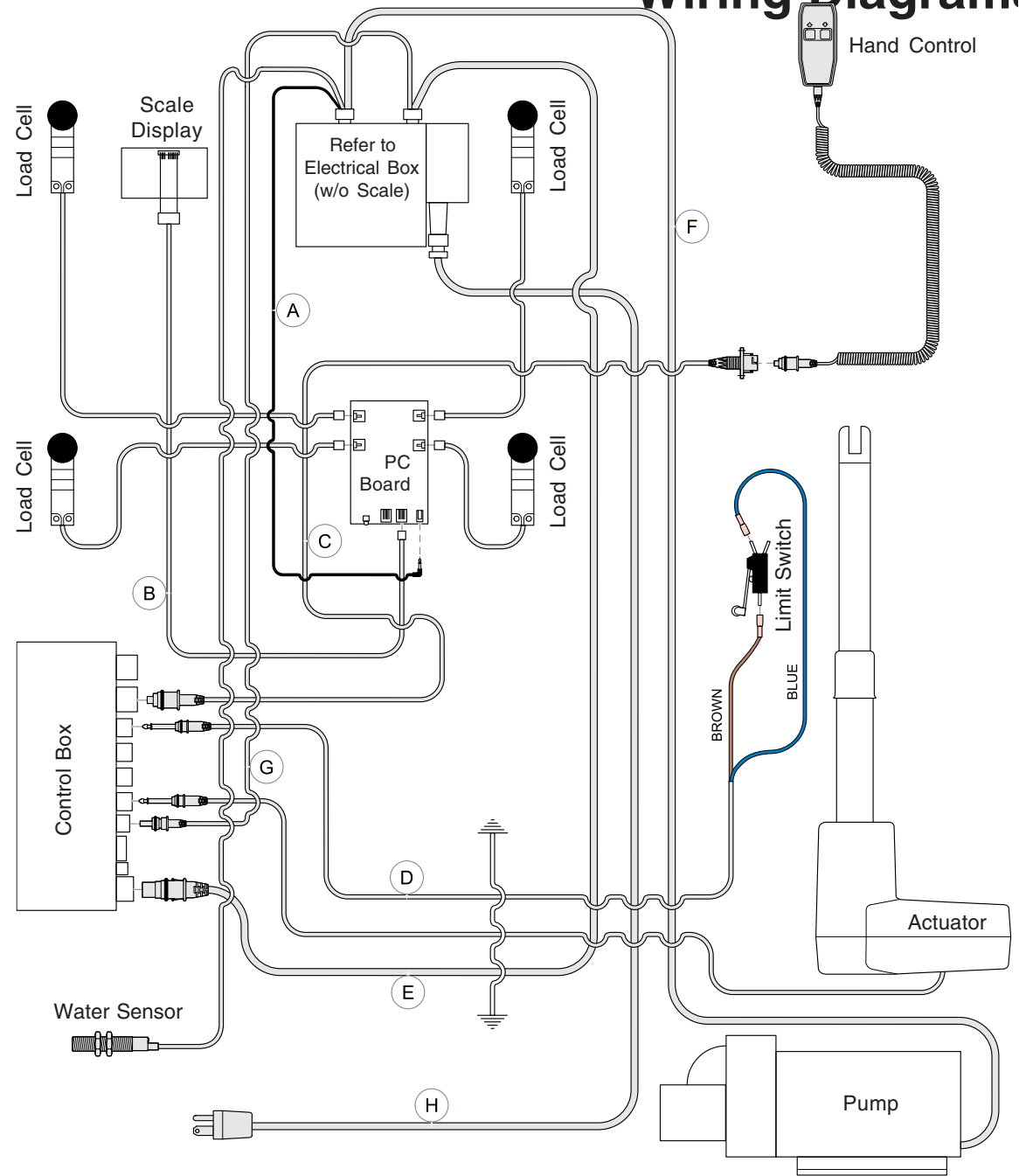
**Electrical Box**  
(units w/o scale)

**Models:**  
**Serial Numbers:**

**CMDT & CMDT-WS (45 & 60)**  
V730066 thru Present

# Wiring Diagrams

Wire Harness	From:	To:	Part Number
A	PC Board	Electrical Box	015-2279-00
B	PC Board	Scale Display	015-2200-00
C	Control Box	Hand Control	015-2285-00
D	Electrical Box	Limit Switch	015-2288-00
E	Control Box	Electrical Box	015-2270-00
F	Pump	Electrical Box	015-2289-00
G	Control Box	Timer	015-2275-00
H	Electrical Box	Outlet	015-1139-01



VA100400i

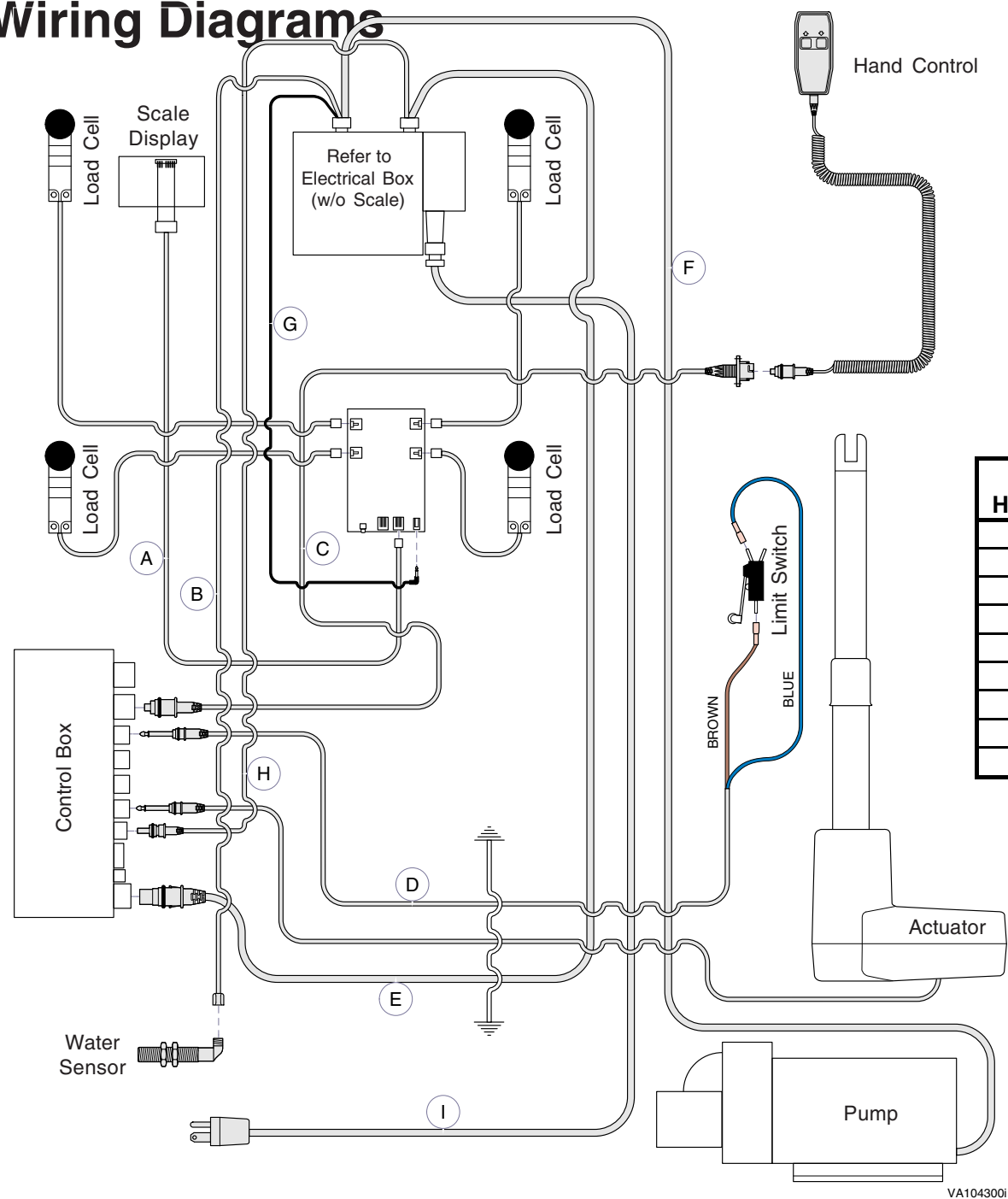
**Models:**  
**Serial Numbers:**

**CMDT & CMDT-WS (45 & 60)**  
DMM-1070-D/T-05 thru DMM-1474-D/T-06

**Wet Table with Scale**  
**Wiring Diagram**

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# Wiring Diagrams



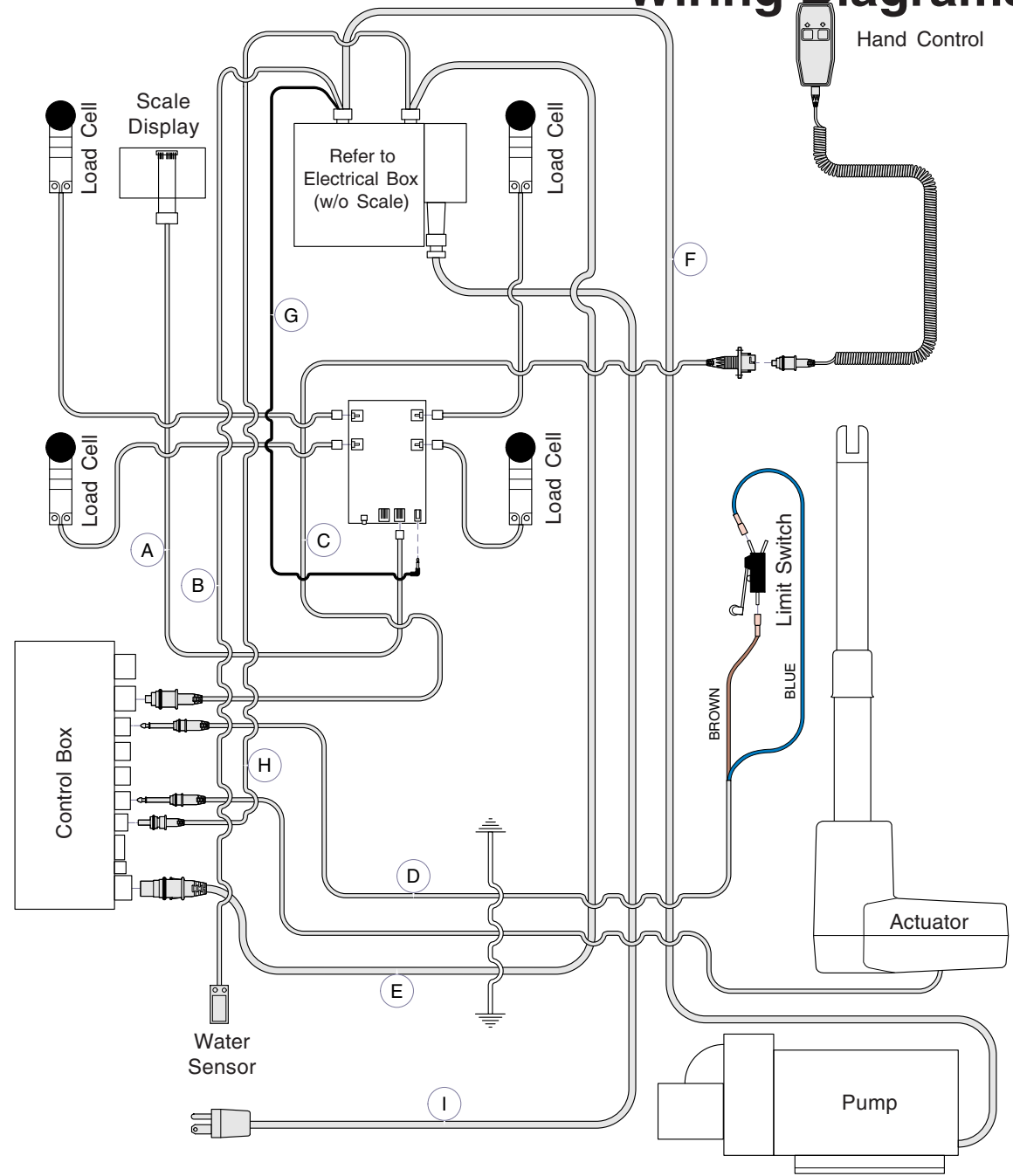
Wire Harness	From:	To:	Part Number
A	PC Board	Scale Display	015-2200-00
B	Water Sensor	Electrical Box	015-2373-00
C	Control Box	Hand Control	015-2285-00
D	Electrical Box	Limit Switch	015-2288-00
E	Control Box	Electrical Box	015-2270-00
F	Pump	Electrical Box	015-2289-00
G	PC Board	Electrical Box	015-2279-00
H	Control Box	Timer	015-2275-00
I	Electrical Box	Outlet	015-1139-01

VA1043001



# Wiring Diagrams

Wire Harness	From:	To:	Part Number
A	PC Board	Scale Display	015-2200-00
B	Water Sensor	Electrical Box	015-2436-00
C	Control Box	Hand Control	015-2285-00
D	Electrical Box	Limit Switch	015-2288-00
E	Control Box	Electrical Box	015-2270-00
F	Pump	Electrical Box	015-2289-00
G	PC Board	Electrical Box	015-2279-00
H	Control Box	Timer	015-2275-00
I	Electrical Box	Outlet	015-1139-01



VA104301i

**Models:**  
**Serial Numbers:**

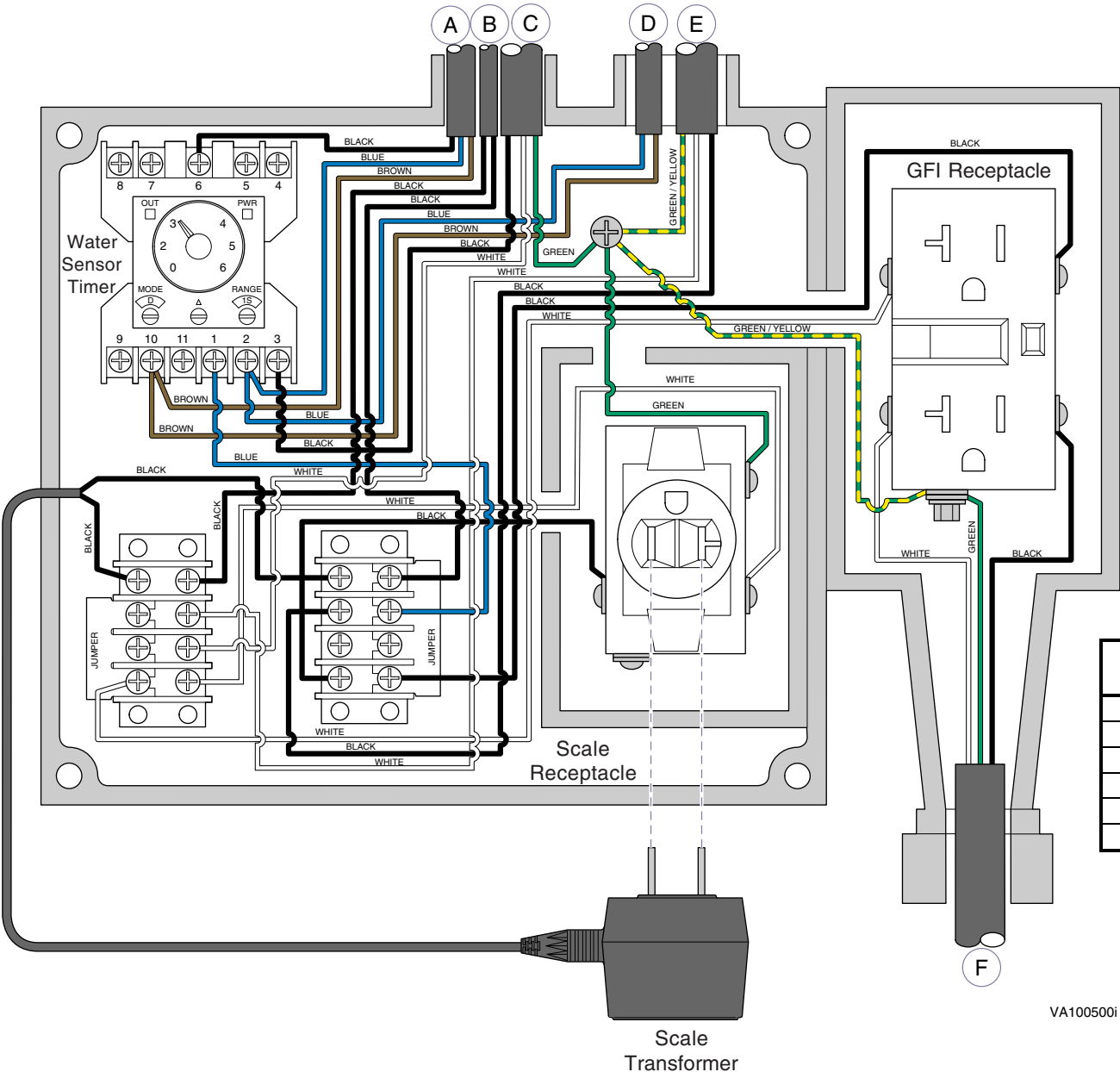
**CMDT & CMDT-WS (45 & 60)**  
DMM-1238-D/T-08 thru Present

**Wet Table with Scale**  
**Wiring Diagram**

**D-6.2**

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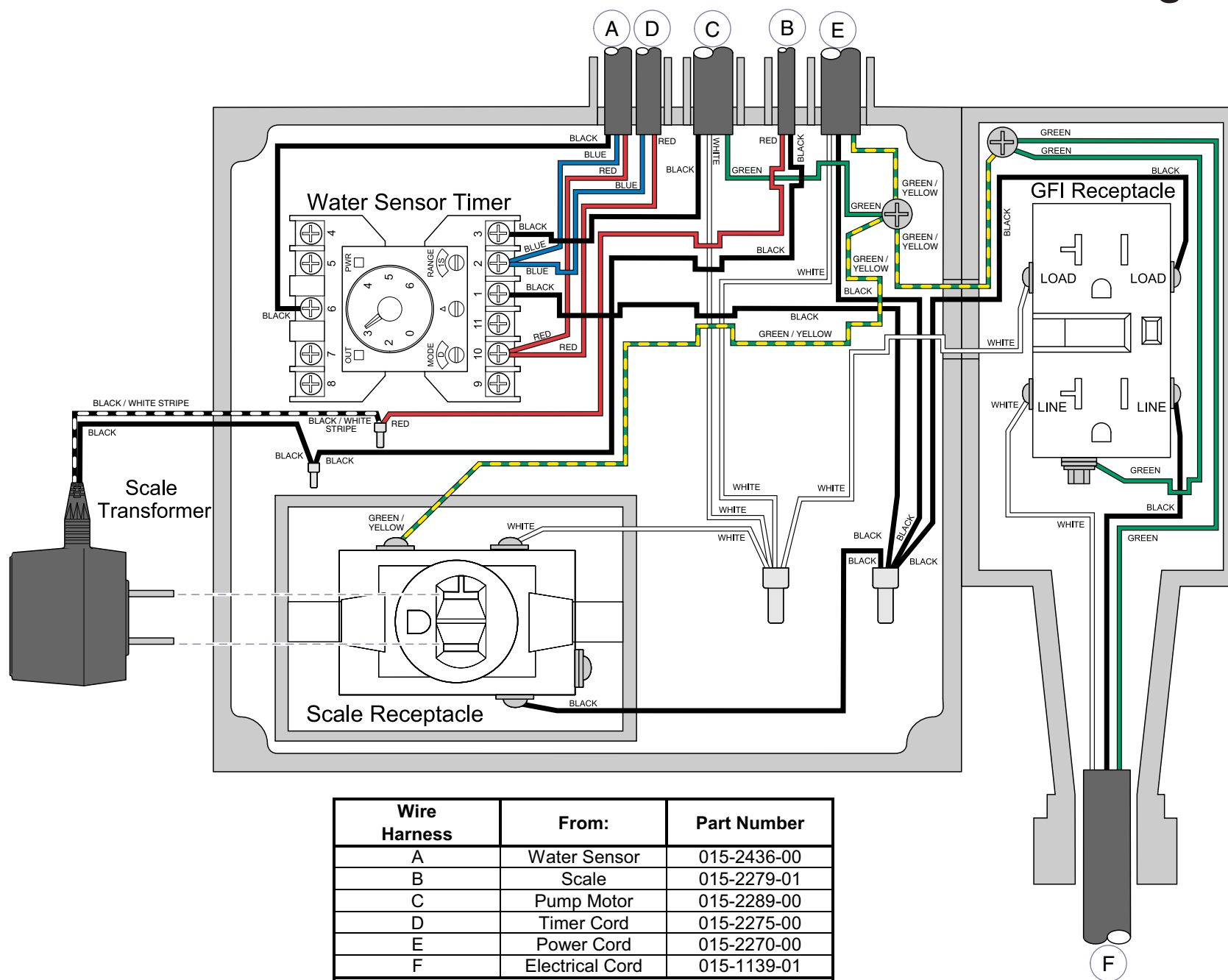
# Wiring Diagrams



Wire Harness	From:	Part Number
A	Water Sensor	015-2436-00
B	Scale	015-2279-01
C	Pump Motor	015-2289-00
D	Timer Cord	015-2275-00
E	Power Cord	015-2270-00
F	Electrical Cord	015-1139-01

VA100500i

# Wiring Diagrams



VA150101i

**Models:**  
**Serial Numbers:**

**CMDT & CMDT-WS (45 & 60)**  
V730066 thru Present

**Electrical Box**  
**(units with scale)**

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**D-7.1**

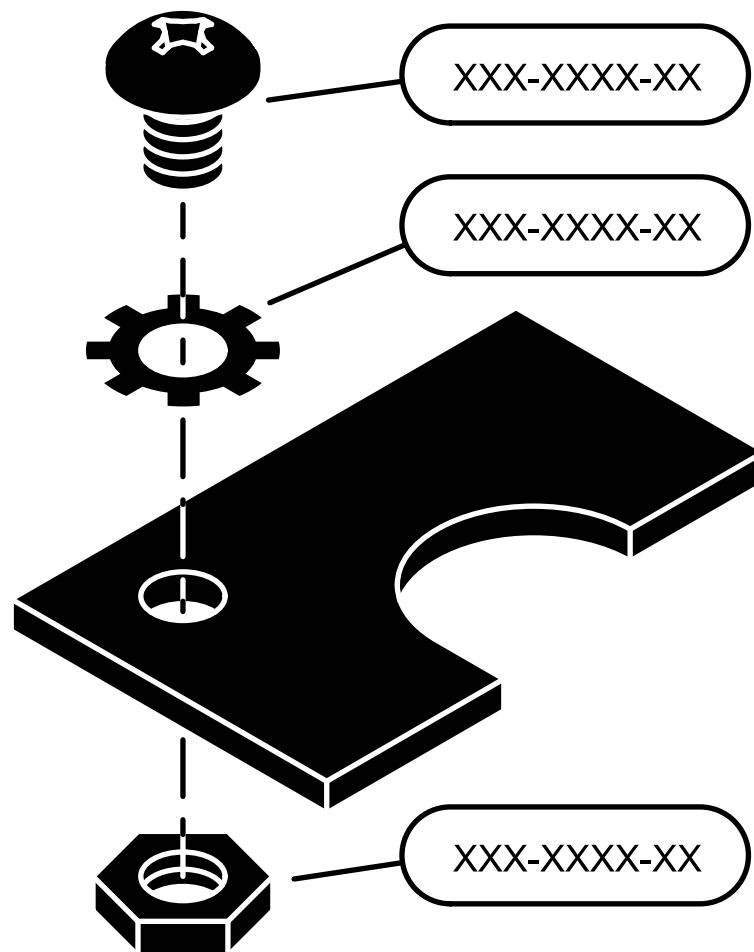


## ***Exploded Views & Parts Lists***

### Model:

CMWO / CMWS: ..... E-2

CMDT-\*\*, CMDT-\*\*-\*\* ..... E-3



# CMW\* (O & S)



# CMDT- (60, WS-60, 45, WS-45)

Optional Features  
Grill Cover ..... E-xx

Electrical Box w/ Scale: ..... E-16\*

Lift Mechanism: ..... E-6\*

Covers and Fasteners: ..... E-10\*

Scale Components: ..... E-14\*

Electrical Box: ..... E-15\*

Water System: ..... E-11\*

Column Roller  
Mechanism: ..... E-9\*

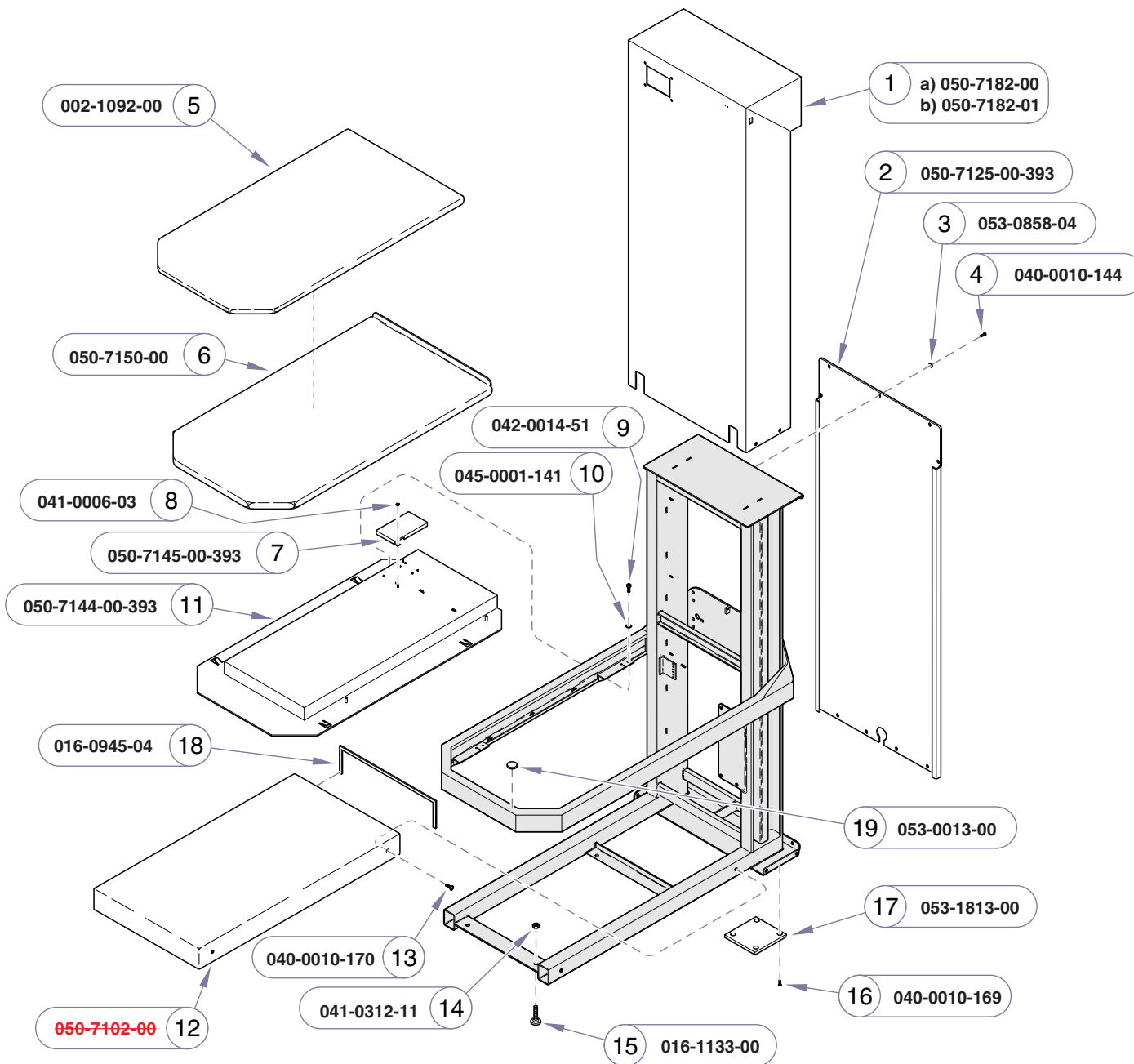
Electrical Components: ..... E-13\*

Table Top Components: ..... E-12\*



NOTE: This model was manufactured using both White and Pebble Grey painted components, please make sure that you are referring to the correct corresponding page.





**NOTE:** This model was manufactured using White painted components.

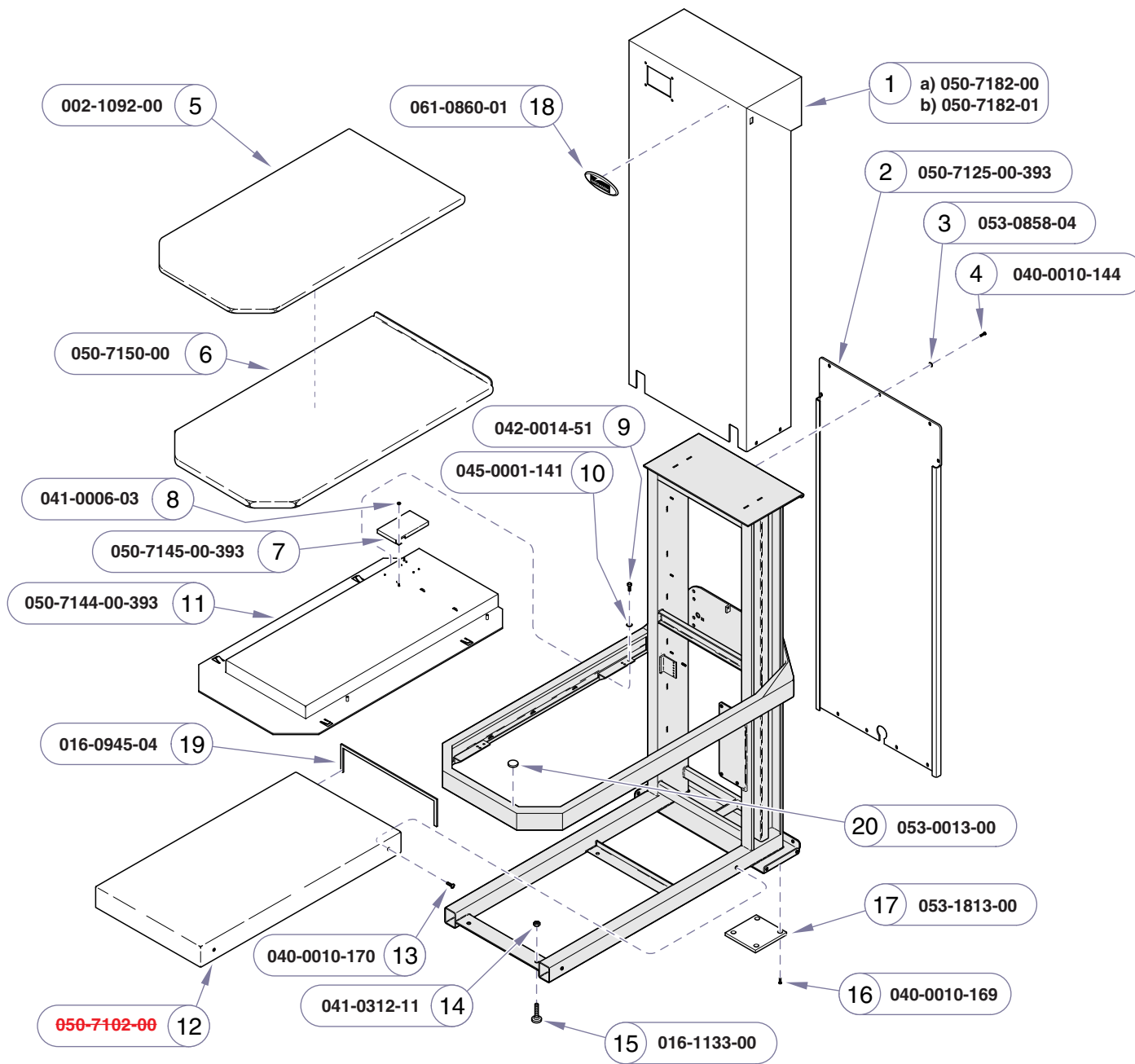
Item	Description	Qty.
1	Column Cover: a) units with scale ..... b) units without scale .....	1 1
2	Back Cover .....	1
3	Nylon Washer (#10) .....	13
4	Stainless Steel Round Head Screw (#10-32 x 3/4") .....	13
5	Stat-Mat Kit .....	1
6	Stainless Steel Tabletop Cover .....	1
7	PC Board Cover (units with scale only) ....	1
8	ESNA Nut (#6-32) [units with scale only] ...	2
9	Shoulder Bolt (#10-32 x 1" x 1") .....	4
10	Washer .....	4
11	Safety Pan .....	1
12	Stainless Steel Leg Cover .....	1
13	Truss Head Screw (#10-32 x 1/2") .....	4
14	Nut (5/16-18) .....	2
15	Leveling Foot (5/16"-18) .....	2
16	Stainless Steel Hex Socket Flat Head Screw (#10-32 x 1/2") [apply thread locking adhesive] .....	8
17	Skid Pad .....	2
18	Cover Edge Guard .....	1
19	Bumper (units without scales only) .....	12
<b>Always Specify Model &amp; Serial Number</b>		

VA1101001

**Covers and Fasteners**  
(dry tables only)

**Models:**  
**Serial Numbers:**

**CMWO & CMWS**  
DMM-1280-05 thru DMM-1450-06



**NOTE:** This model was manufactured using White painted components.

Item	Description	Qty.
1	Column Cover:	
	a) units withscale .....	1
	b) units without scale .....	1
2	Back Cover .....	1
3	Nylon Washer (#10) .....	13
4	Stainless Steel Round Head Screw (#10-32 x 3/4") .....	13
5	Stat-Mat .....	1
6	Stainless Steel Tabletop Cover .....	1
7	PC Board Cover (units with scale only) .....	1
8	ESNA Nut (#6-32) [units with scale only] ....	2
9	Shoulder Bolt (#10-32 x 1" x 1") .....	4
10	Washer .....	4
11	Safety Pan .....	1
12	Stainless Steel Leg Cover .....	1
13	Truss Head Screw (#10-32 x 1/2") .....	4
14	Nut (5/16-18) .....	2
15	Leveling Foot (5/16"-18) .....	2
16	Stainless Steel Hex Socket Flat Head Screw (#10-32 x 1/2") [apply thread locking adhesive] .....	8
17	Skid Pad .....	2
18	Midmark Logo Nameplate .....	1
19	Cover Edge Guard .....	1
20	Bumper (units without scales only) .....	12

**Always Specify Model & Serial Number**

VA1022001

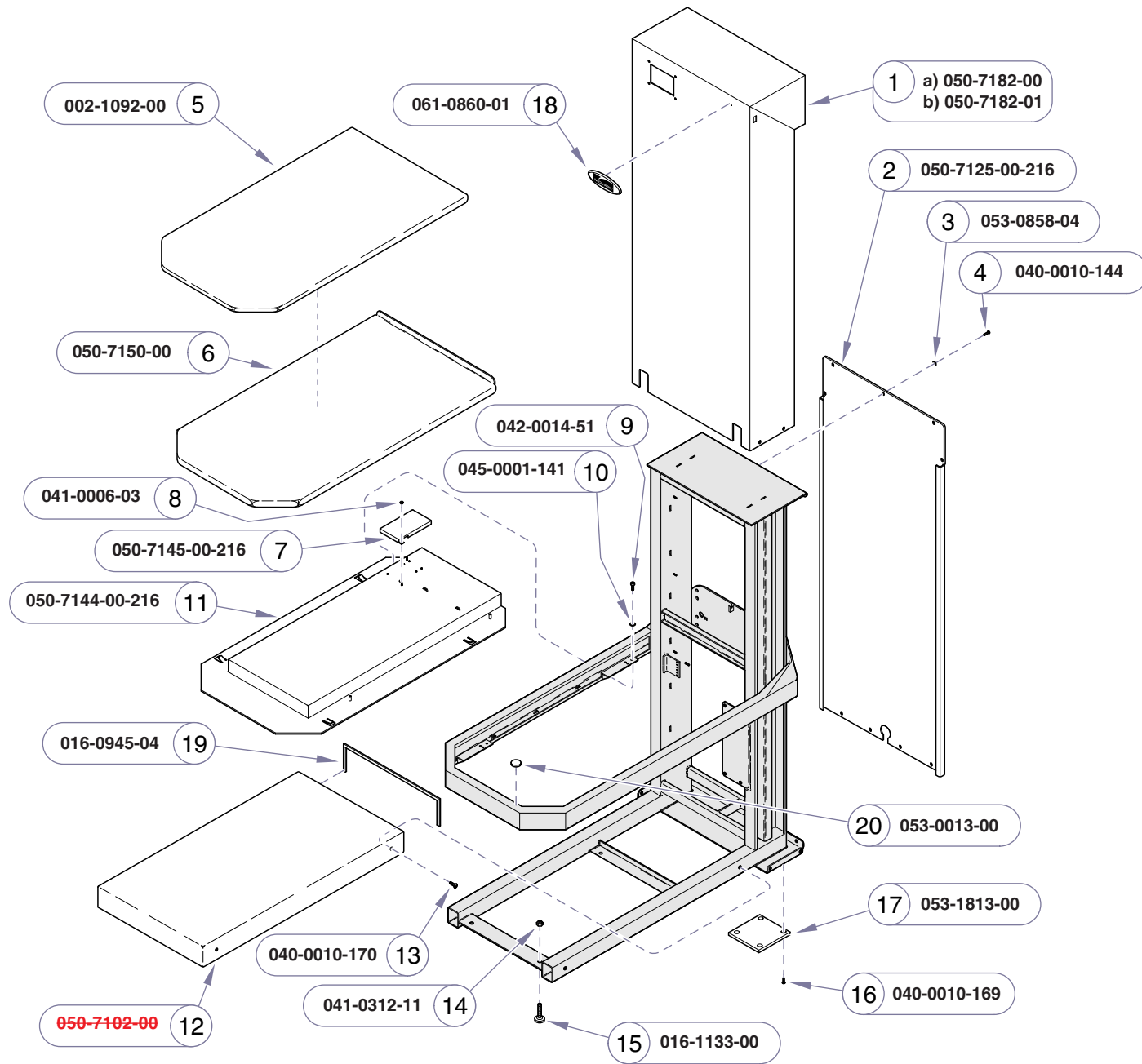
**Models:**  
Serial Numbers:

**CMWO & CMWS**  
DMM-1451-06 thru DMM-1908-08

**Covers and Fasteners**  
(dry tables only)

**E-4.1**

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**NOTE:** This model was manufactured using Pebble Grey painted components.

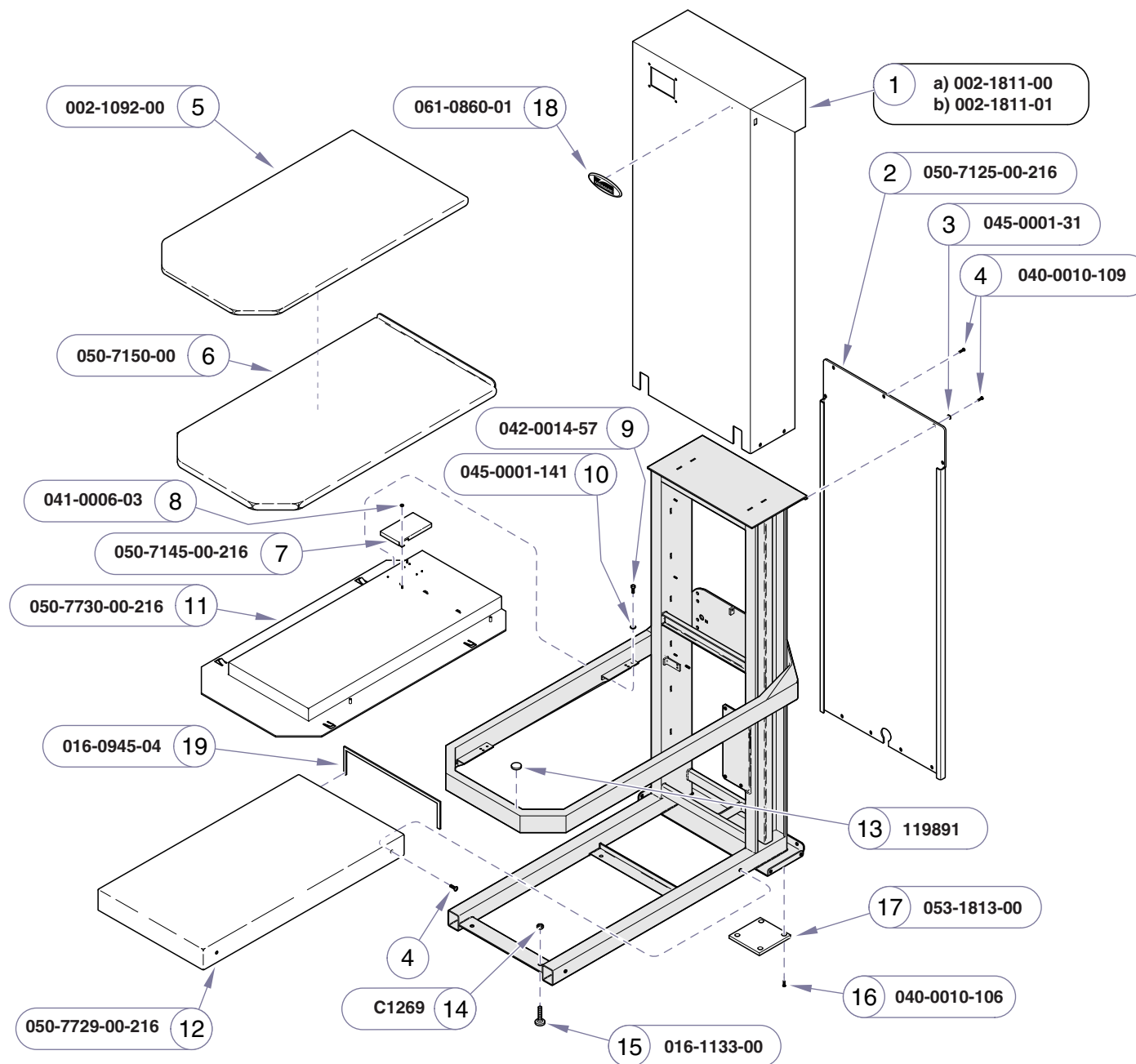
Item	Description	Qty.
1	Column Cover: a) units withscale ..... b) units without scale .....	1 1
2	Back Cover .....	1
3	Nylon Washer (#10) .....	13
4	Stainless Steel Round Head Screw (#10-32 x 3/4") .....	13
5	Stat-Mat Kit .....	1
6	Stainless Steel Tabletop Cover .....	1
7	PC Board Cover (units with scale only) .....	1
8	ESNA Nut (#6-32) [units with scale only] ...	2
9	Shoulder Bolt (#10-32 x 1" x 1") .....	4
10	Washer .....	4
11	Safety Pan .....	1
12	Stainless Steel Leg Cover .....	1
13	Truss Head Screw (#10-32 x 1/2") .....	4
14	Nut (5/16-18) .....	2
15	Leveling Foot (5/16"-18) .....	2
16	Stainless Steel Hex Socket Flat Head Screw (#10-32 x 1/2") [apply thread locking adhesive] .....	8
17	Skid Pad .....	2
18	Midmark Logo Nameplate .....	1
19	Cover Edge Guard .....	1
20	Bumper (units without scales only) .....	12
<b>Always Specify Model &amp; Serial Number</b>		

VA102200i

## Covers and Fasteners (dry tables only)

**Models:**  
**Serial Numbers:**

**CMWO & CMWS**  
DMM-1909-08 thru DMM-2028-09



**NOTE:** This model was manufactured using **Pebble Grey** painted components.

Item	Description	Qty.
1	Column Cover: a) units with scale (shown) .....	1
	b) units without scale .....	1
2	Back Cover .....	1
3	External Tooth Lockwasher (#10) .....	1
4	Round Head Screw (#10-24 x 3/8") .....	17
5	Stat-Mat Kit .....	1
6	Stainless Steel Tabletop Cover .....	1
7	PC Board Cover (units with scale only) .....	1
8	ESNA Nut (#6-32) [units with scale only] ....	2
9	Shoulder Bolt (#10-32 x 1" x 1 1/4") .....	4
10	Washer .....	4
11	Safety Pan .....	1
12	Frame Bottom Cover .....	1
13	Bumper (units without scales only) .....	12
14	Nut (5/16-18) .....	2
15	Leveling Foot (5/16"-18) .....	2
16	Stainless Steel Hex Socket Flat Head Screw (#10-32 x 1/2") [apply thread locking adhesive] .....	8
17	Skid Pad .....	2
18	Midmark Logo Nameplate .....	1
19	Cover Edge Guard .....	1
<b>Always Specify Model &amp; Serial Number</b>		

VA1503i

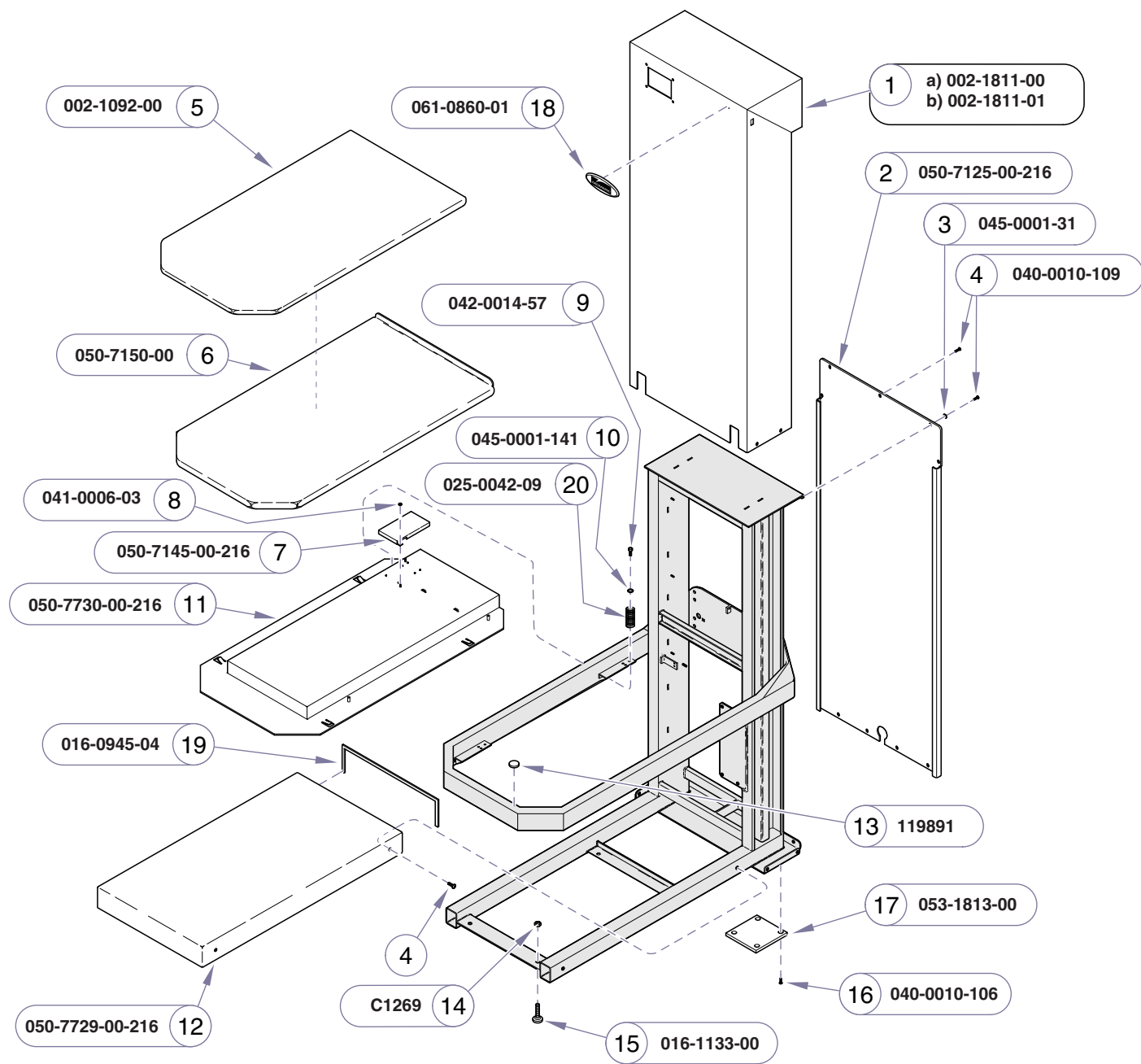
**Models:**  
Serial Numbers:

**CMWO & CMWS**  
V730066 thru V962624

**Covers and Fasteners**  
(dry tables only)

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**E-4.3**



**NOTE:** This model was manufactured using Pebble Grey painted components.

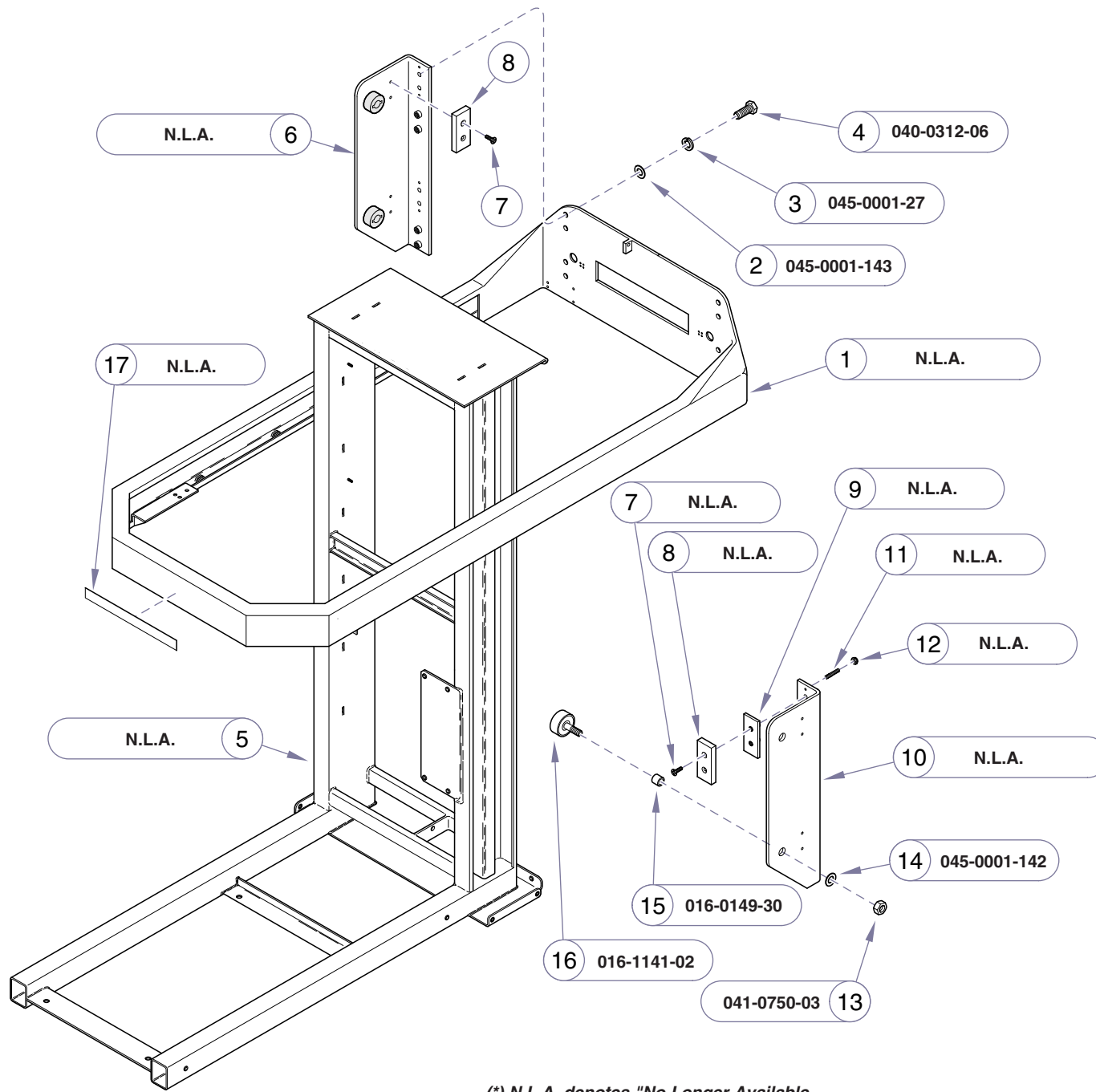
Item	Description	Qty.
1	Column Cover: a) <i>units with scale (shown)</i> .....	1
	b) <i>units without scale</i> .....	1
2	Back Cover .....	1
3	External Tooth Lockwasher (#10) .....	1
4	Round Head Screw (#10-24 x 3/8") .....	17
5	Stat-Mat Kit .....	1
6	Stainless Steel Tabletop Cover .....	1
7	PC Board Cover ( <i>units with scale only</i> ) .....	1
8	ESNA Nut (#6-32) [ <i>units with scale only</i> ] ....	2
9	Shoulder Bolt (#10-32 x 1" x 1 1/4") .....	4
10	Washer .....	4
11	Safety Pan .....	1
12	Frame Bottom Cover .....	1
13	Bumper ( <i>units without scales only</i> ) .....	12
14	Nut (5/16-18) .....	2
15	Leveling Foot (5/16"-18) .....	2
16	Stainless Steel Hex Socket Flat Head Screw (#10-32 x 1/2") [ <i>apply thread locking adhesive</i> ] .....	8
17	Skid Pad .....	2
18	Midmark Logo Nameplate .....	1
19	Cover Edge Guard .....	1
20	Compression Spring .....	4
<b>Always Specify Model &amp; Serial Number</b>		

VA150301i

## Covers and Fasteners (dry tables only)

**Models:**  
**Serial Numbers:**

**CMWO & CMWS**  
V730066 thru Present



(\*) N.L.A. denotes "No Longer Available"

**NOTE:** This model was manufactured using White painted components.

Item	Description	Qty.
1	Tabletop Platform Weldment .....	1
2	Washer (5/16") .....	8
3	Lockwasher (5/16") .....	8
4	Hex Bolt (5/16"-18 x 1") .....	8
5	Column Weldment .....	1
6	L.H. Roller Bracket .....	1
7	Screw .....	16
8	Nylon Slide Pads .....	8
9	Slide Pads Mounting Bracket .....	4
10	R.H. Roller Bracket .....	1
11	Set Screw .....	16
12	Nut .....	4
13	Nut (3/4"-16) .....	4
14	Lockwasher (3/4") .....	6
15	Bronze Bushing .....	4
16	Radial Bearing Dia Roller (1-7/8") .....	4
17	Canis Major Decal .....	1

**Always Specify Model & Serial Number**

VA103500i

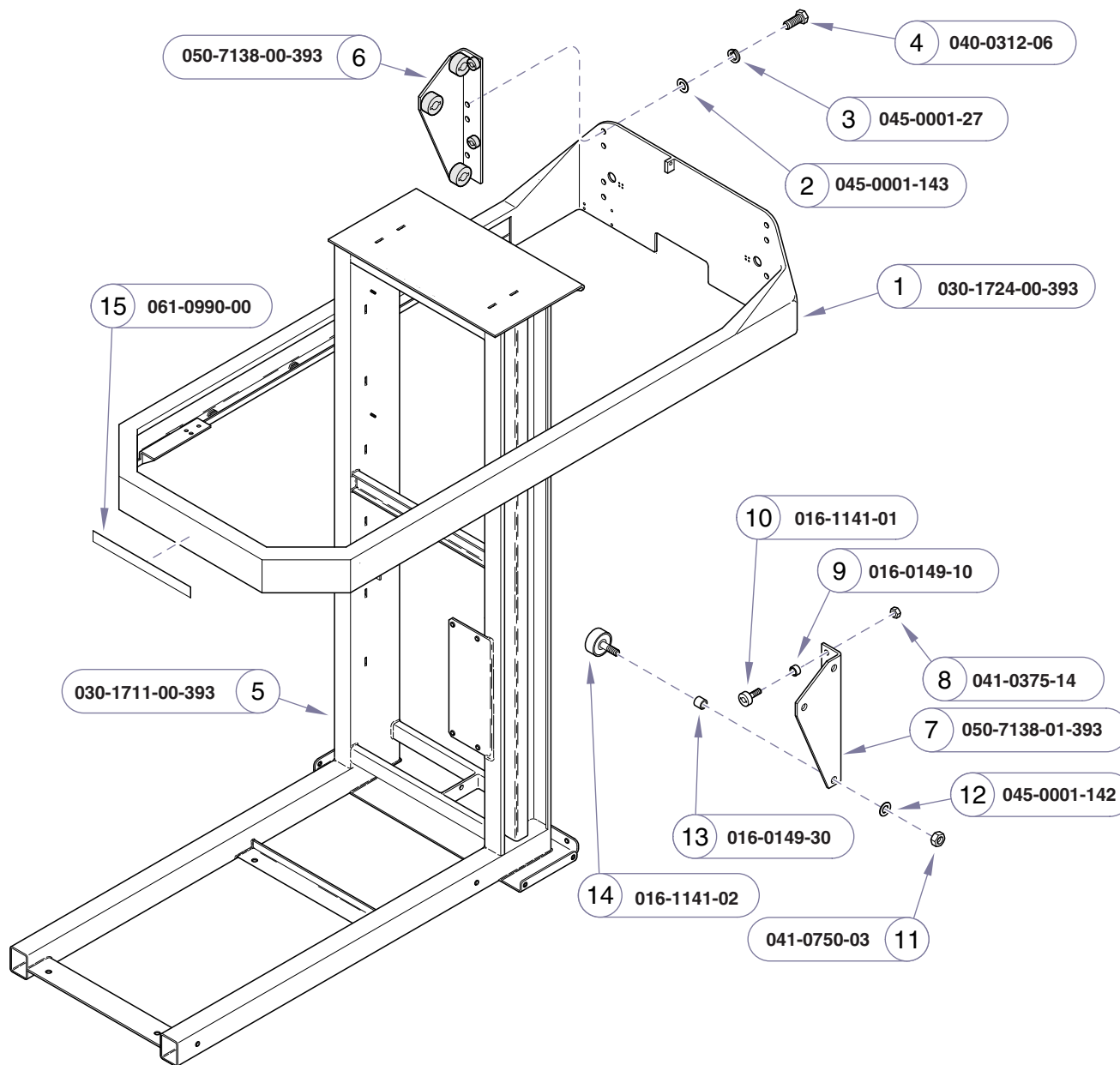
**Models:**  
Serial Numbers:

**CMWO & CMWS**  
DMM-1280-05 thru DMM-1422-06

**Column Roller Mechanism**  
(dry tables only)

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**NOTE:** This model was manufactured using White painted components.

Item	Description	Qty.
1	Tabletop Platform Weldment .....	1
2	Washer (5/16") .....	8
3	Lockwasher (5/16") .....	8
4	Hex Bolt (5/16"-18 x 1") .....	8
5	Column Weldment .....	1
6	L.H. Roller Bracket (sold as bracket only, assembled for illustration purposes only) ..	1
7	R.H. Roller Bracket .....	1
8	Nut (3/8"-24) .....	4
9	Bronze Bushing .....	4
10	Column Roller .....	4
11	Nut (3/4"-16) .....	6
12	Lockwasher (3/4") .....	6
13	Oilite Bushing .....	6
14	Radial Bearing Dia Roller (1-7/8") .....	6
15	Canis Major Decal .....	1

**Always Specify Model & Serial Number**

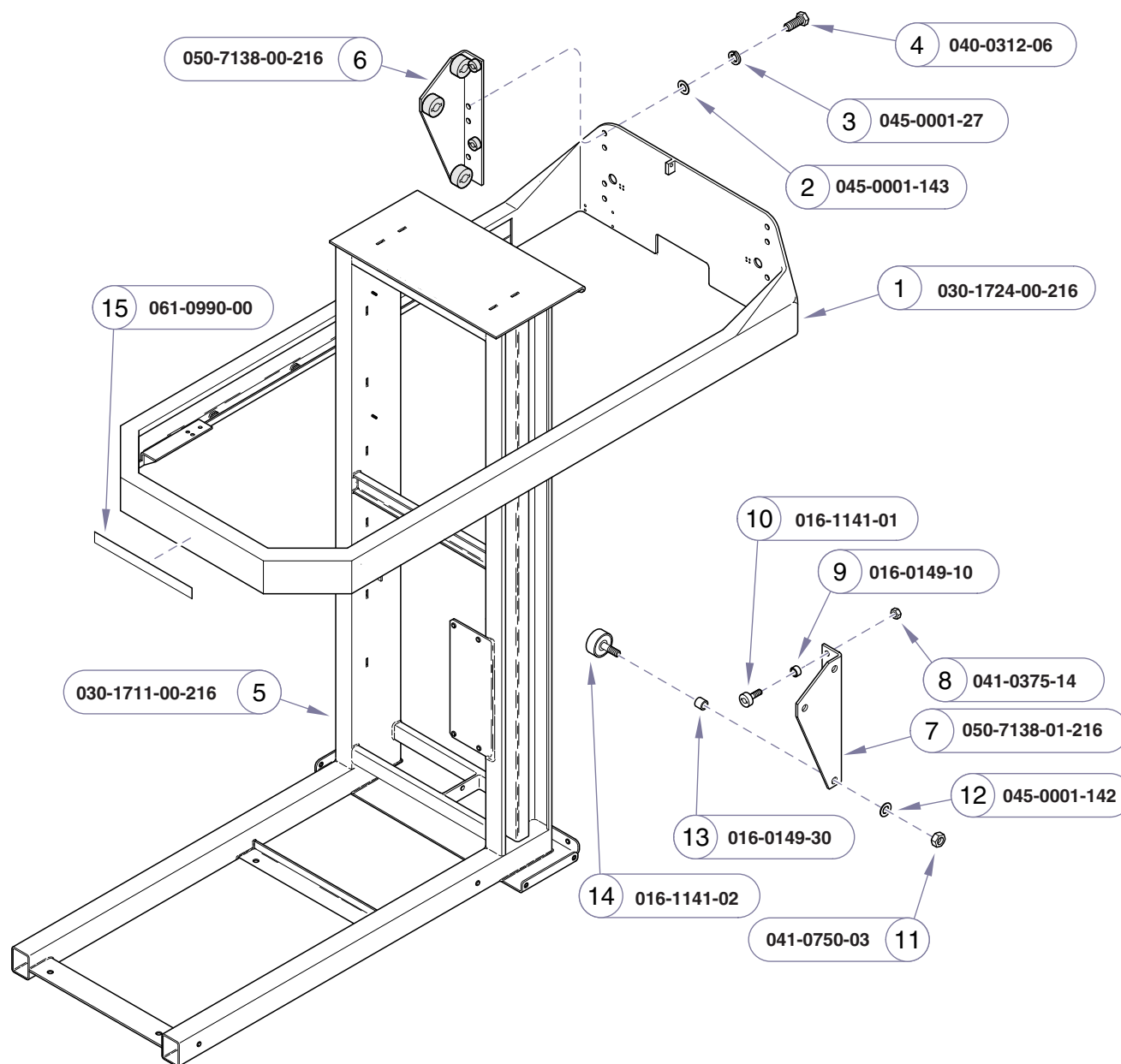
VA102300i

## E-5.1

### Column Roller Mechanism (dry tables only)

**Models:**  
**Serial Numbers:**

**CMWO & CMWS**  
DMM-1423-06 thru DMM-1908-08



**NOTE:** This model was manufactured using Pebble Grey painted components.

Item	Description	Qty.
1	Tabletop Platform Weldment .....	1
2	Washer (5/16") .....	8
3	Lockwasher (5/16") .....	8
4	Hex Bolt (5/16"-18 x 1") .....	8
5	Column Weldment .....	1
6	L.H. Roller Bracket (sold as bracket only, [assembled for illustration purposes only]) ..	1
7	R.H. Roller Bracket .....	1
8	Nut (3/8"-24) .....	4
9	Bronze Bushing .....	4
10	Column Roller .....	4
11	Nut (3/4"-16) .....	6
12	Lockwasher (3/4") .....	6
13	Oilite Bushing .....	6
14	Radial Bearing Dia Roller (1-7/8") .....	6
15	Canis Major Decal .....	1

**Always Specify Model & Serial Number**

VA102300i

**Models:**  
Serial Numbers:

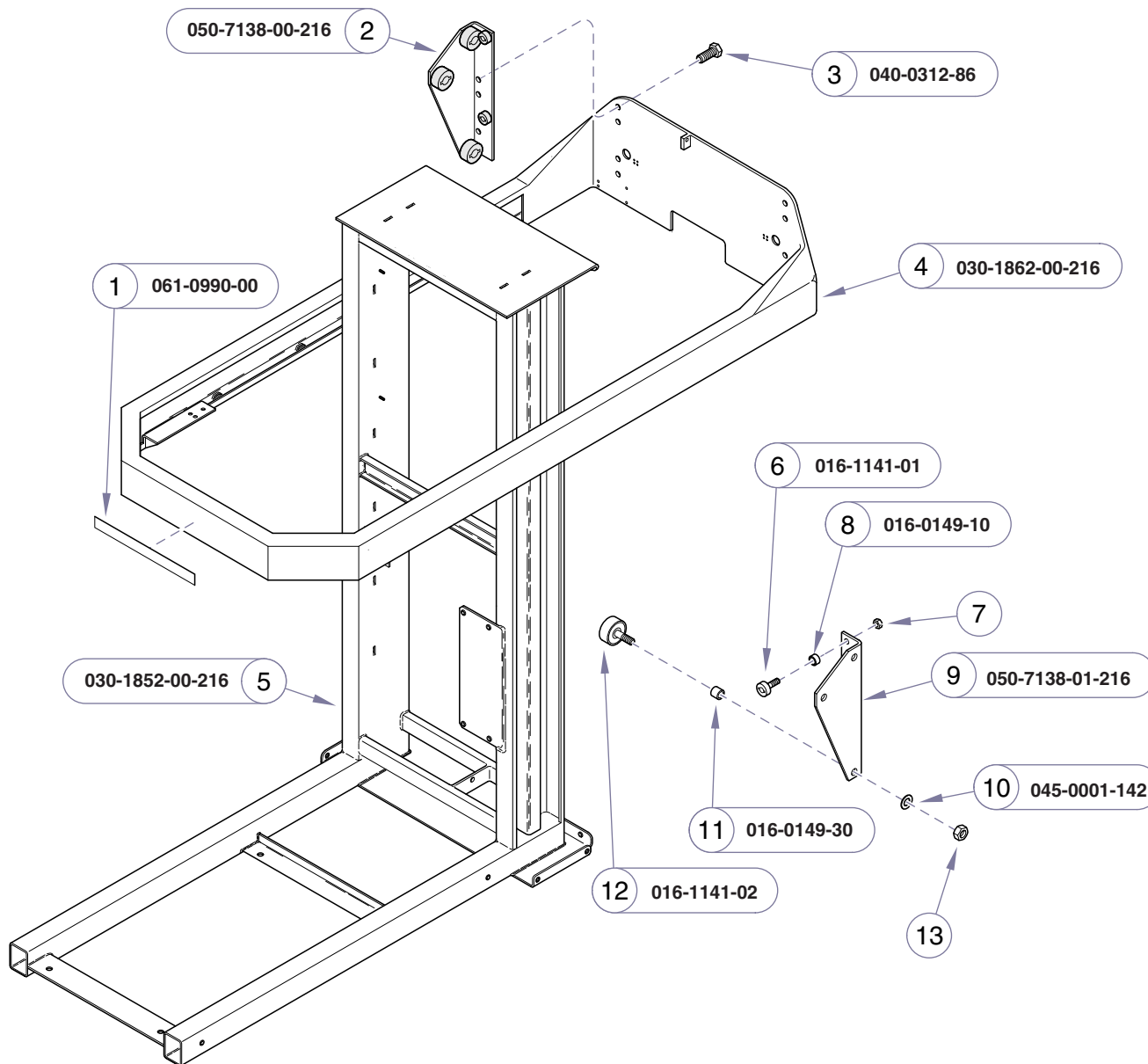
**CMWO & CMWS**  
DMM-1909-08 thru DMM-2028-09

**Column Roller Mechanism**  
(dry tables only)

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**E-5.2**



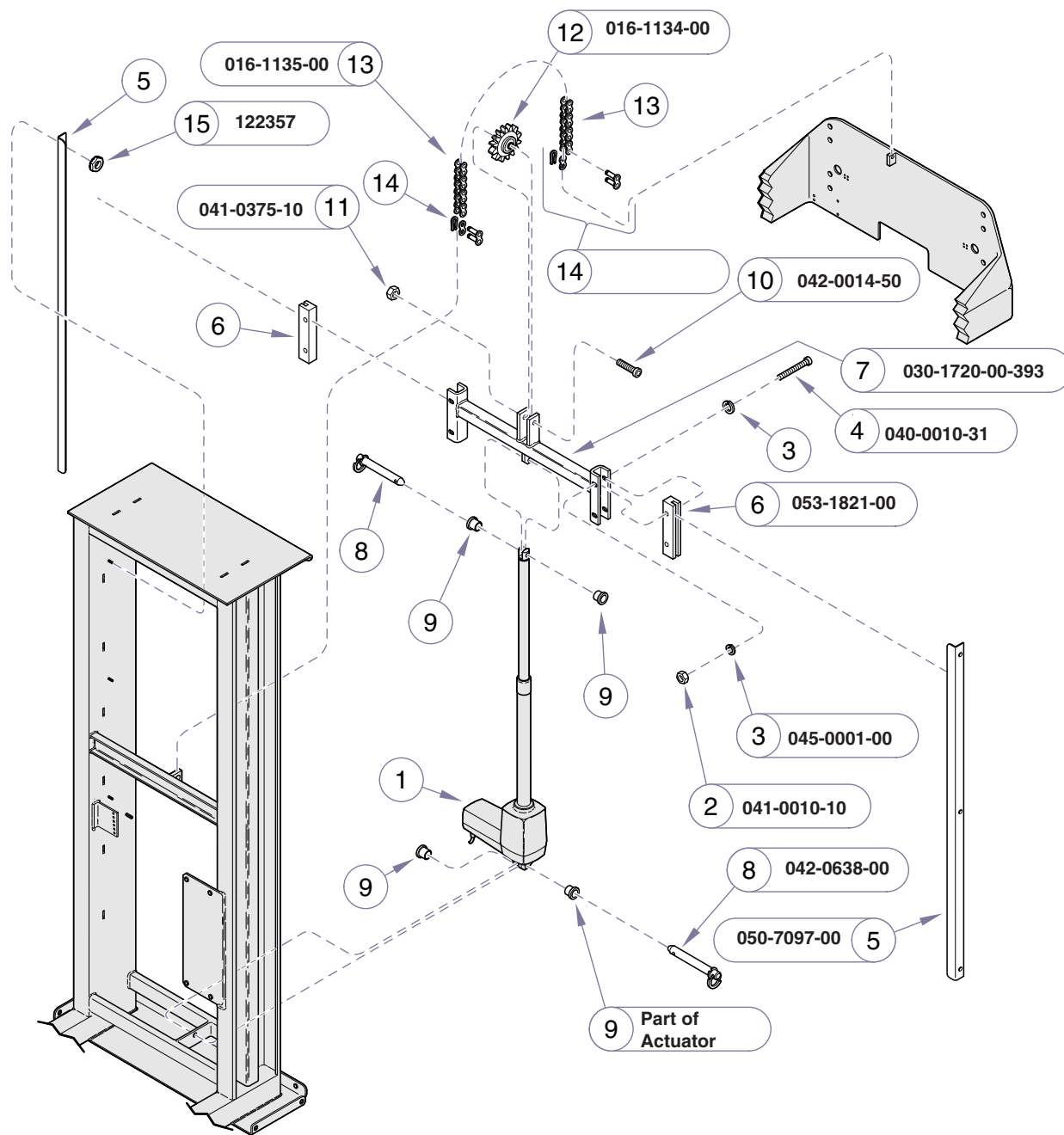


**NOTE:** This model was manufactured using Pebble Grey painted components.

Item	Description	Qty.
1	Canis Major Decal .....	1
2	L.H. Roller Bracket <i>(sold as bracket only, [assembled for illustration purposes only])</i> ..	1
3	Hex Bolt (5/16"-18 x 1") .....	8
4	Table Frame Weldment, Dry 45" .....	1
5	Tower Frame Weldment .....	1
6	Column Roller <i>(includes item 7)</i> .....	4
7	• Nut (3/8"-24) .....	6
8	Bronze Bushing .....	4
9	R.H. Roller Bracket .....	1
10	Lockwasher (3/4") .....	6
11	Oilite Bushing .....	6
12	Radial Bearing Dia Roller, 1-7/8" <i>(includes item 12)</i> .....	6
13	• Nut (3/4"-16) .....	6

**Always Specify Model & Serial Number**

VA1504i



**NOTE:** This model was manufactured using White painted components.

Item	Description	Qty.
1	24 Volt Lift Actuator (refer to "Electrical Components")	Ref
2	ESNA Nut (#10-32)	4
3	Washer (#10)	8
4	Socket Hd. Cap Screw (#10-32 x 1 1/2")	4
5	Actuator Guide Angle	2
6	Bearing Block	2
7	Upper Actuator Mounting Bracket	1
8	Quick Release Pin	2
9	Flange Bushing (comes with actuator)	4
10	Cap Screw (3/8"-16)	1
11	ESNA Nut (3/8"-16")	1
12	Idler Sprocket	1
13	Drive Chain (#40 [includes item 14])	1
14	• Connector Link Assembly (#40)	2
15	Keps Lock Nut (#10-32)	6
<b>Always Specify Model &amp; Serial Number</b>		

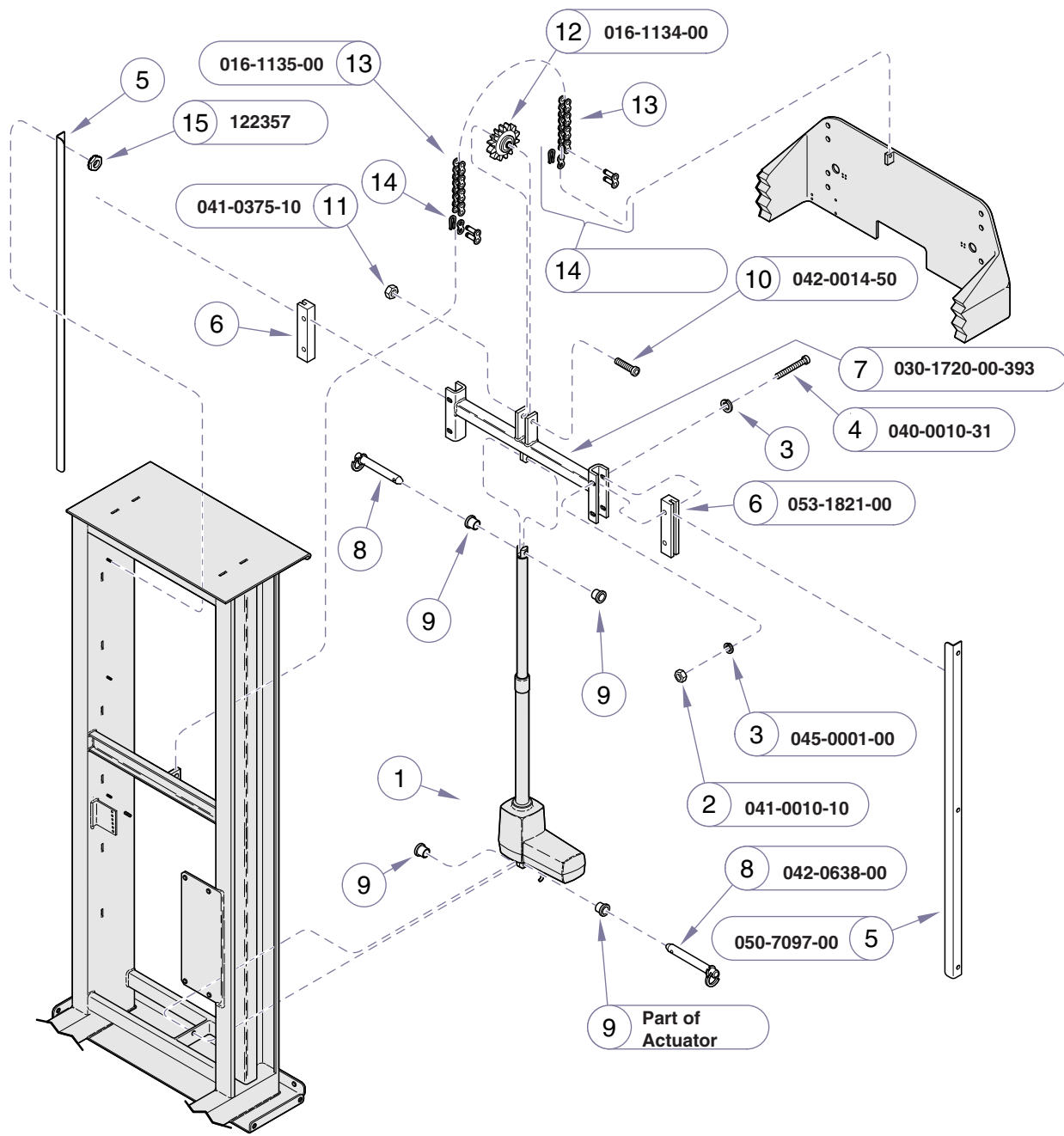
VA1025001

**Models:**  
Serial Numbers:

**CMWO & CMWS**  
DMM-1280-05 thru DMM-1453-06

**Lift Mechanism**  
(dry tables only)

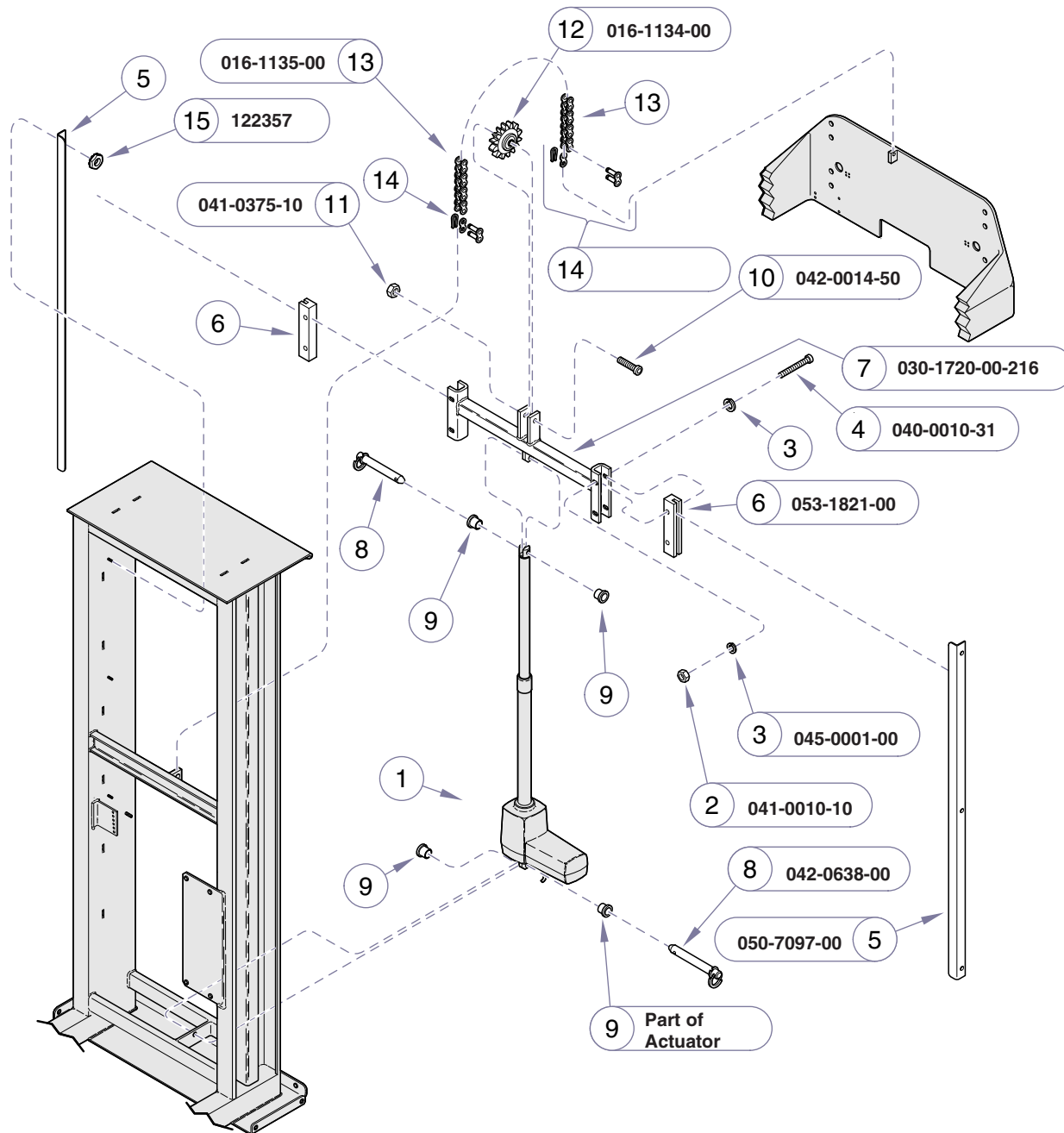
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**NOTE:** This model was manufactured using White painted components.

Item	Description	Qty.
1	24 Volt Lift Actuator (refer to "Electrical Components")	Ref
2	ESNA Nut (#10-32)	4
3	Washer (#10)	8
4	Socket Hd. Cap Screw (#10-32 x 1 1/2")	4
5	Actuator Guide Angle	2
6	Bearing Block	2
7	Upper Actuator Mounting Bracket	1
8	Quick Release Pin	2
9	Flange Bushing (comes with actuator)	4
10	Cap Screw (3/8"-16")	1
11	ESNA Nut (3/8"-16")	1
12	Idle Sprocket	1
13	Drive Chain (#40 [includes item 14])	1
14	• Connector Link Assembly (#40)	2
15	Keps Lock Nut (#10-32)	6
<b>Always Specify Model &amp; Serial Number</b>		

VA103300i



**NOTE:** This model was manufactured using Pebble Grey painted components.

Item	Description	Qty.
1	24 Volt Lift Actuator (refer to "Electrical Components")	Ref
2	ESNA Nut (#10-32)	4
3	Washer (#10)	8
4	Socket Hd. Cap Screw (#10-32 x 1 1/2")	4
5	Actuator Guide Angle	2
6	Bearing Block	2
7	Upper Actuator Mounting Bracket	1
8	Quick Release Pin	2
9	Flange Bushing (comes with actuator)	4
10	Cap Screw (3/8"-16")	1
11	ESNA Nut (3/8"-16")	1
12	Idler Sprocket	1
13	Drive Chain (#40 [includes item 14])	1
14	• Connector Link Assembly (#40)	2
15	Keps Lock Nut (#10-32)	6

**Always Specify Model & Serial Number**

VA103300i

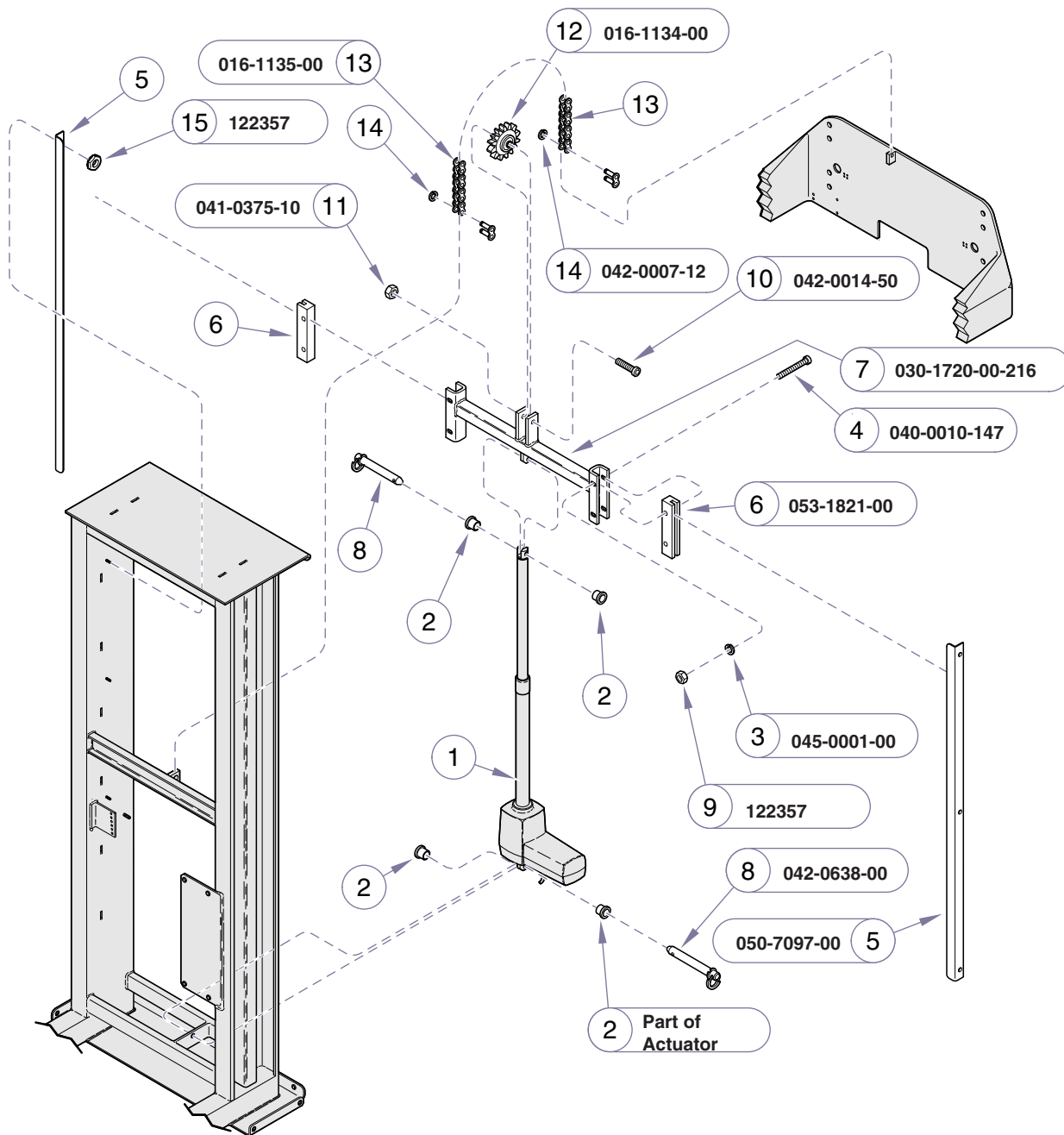
**Models:** **CMWO & CMWS**  
Serial Numbers: DMM-1909-08 thru DMM-2028-09

**CMDT & CMDT-WS (45 & 60)**  
DMM-1242-D/T-08 thru DMM-1288-D/T-09

**Lift Mechanism**  
(dry & wet tables)

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**E-6.2**



**NOTE:** This model was manufactured using Pebble Grey painted components.

Item	Description	Qty.
1	24 Volt Lift Actuator (refer to "Electrical Components" [includes item 2])	Ref
2	• Flange Bushing (part of actuator)	4
3	Washer (#10)	4
4	Pan Hd. Cap Screw (#10-32 x 1 1/2")	4
5	Actuator Guide Angle	2
6	Bearing Block	2
7	Sprocket Carrier Bracket	1
8	Quick Release Pin	2
9	Keps Nut (#10-32)	4
10	Cap Screw (3/8"-16")	1
11	ESNA Nut (3/8"-16")	1
12	Idle Sprocket	1
13	Drive Chain (#40 [includes item 14])	1
14	E Ring	4
15	Keps Lock Nut (#10-32)	6
<b>Always Specify Model &amp; Serial Number</b>		

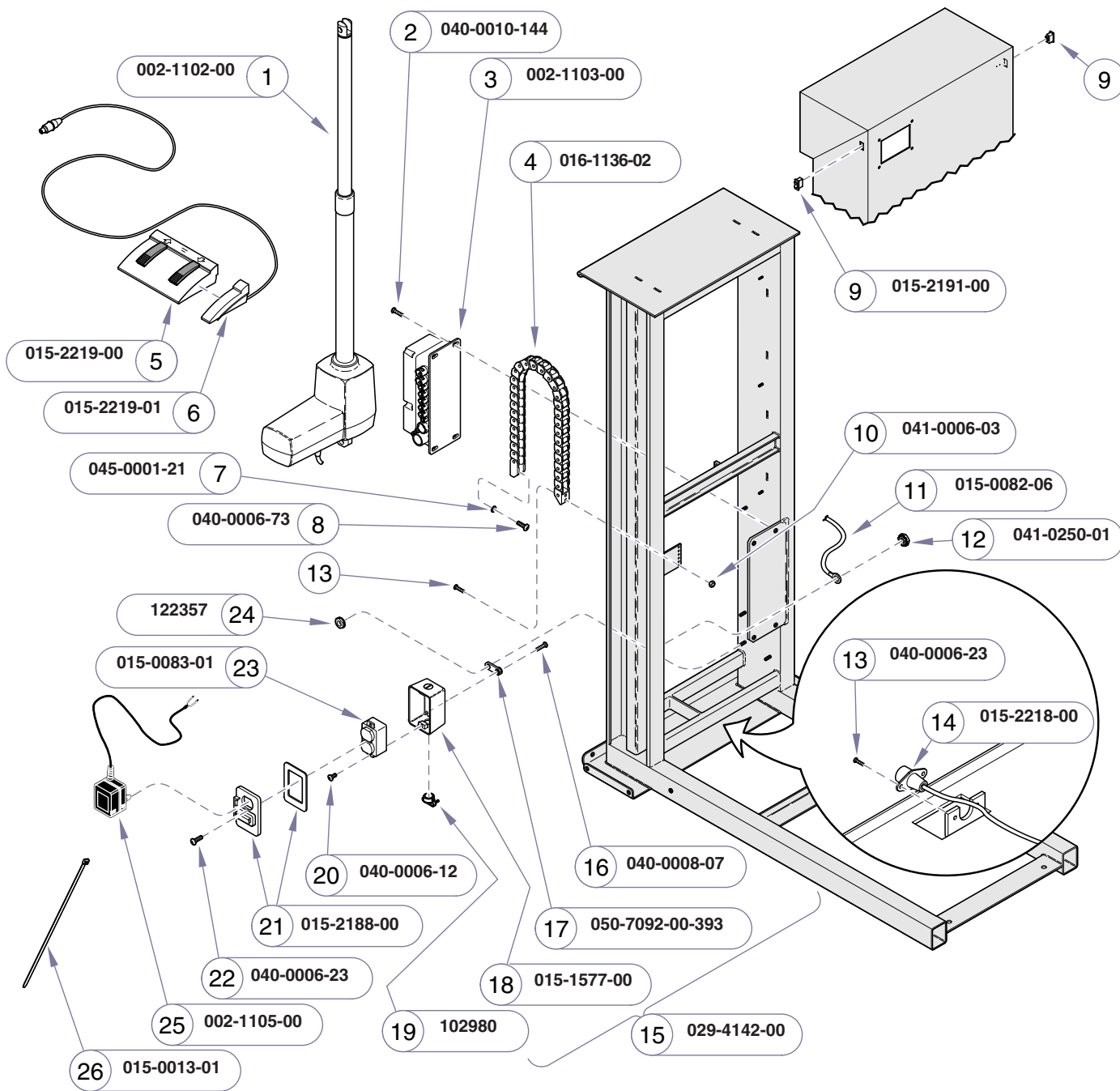
VA1505i

**Lift Mechanism**  
(dry & wet tables)

**Models:**  
Serial Numbers:

**CMWO & CMWS**  
V730066 thru Present

**CMDT & CMDT-WS (45 & 60)**  
V732680 thru Present



**NOTE: This model was manufactured using White painted components.**

Item	Description	Qty.
1	Actuator Kit (refer to "Wiring Diagram" in Section "D")	1
2	Screw, Pan Head (#10-32 x 1/2")	4
3	Actuator Controller Kit (refer to "Wiring Diagram" in Section "D")	1
4	E-Chain & Mounting Bracket	1
5	Foot Control Pedal Box Assembly	1
6	Foot Control Electronic Box Assembly	1
7	Washer (#6)	2
8	Screw (#6-32 x 3/4")	2
9	Rocker Switch	2
10	ESNA Nut (#6-32)	4
11	Grounding Braid (refer to "Wiring Diagram" in Section "D")	1
12	Nylon Insert Lock Nut (1/4"-20)	2
13	Screw (#6-32 x 1/2")	4
14	Foot Control Receptacle Cable (refer to "Wiring Diagram" in Section "D")	Ref
15	Power Box Assembly (Incl. items 15 thru 22 [used only on units equipped with scale])	1
16	Modified Receptacle Cover Assembly	1
17	Receptacle Assembly	1
18	Electrical Enclosure	1
19	Electrical Enclosure Cable Clamp	1
20	Screw, Flat Head (#8-32 x 3/8")	4
21	Mounting Tab	4
22	Screw, Pan Head (#6-32 x 1/2")	3
23	Receptacle	1
24	ESNA Nut (#8)	4
25	Scale Transformer Kit (refer to "Wiring Diagram" in Section "D")	1
26	Cable Tie	1

**Always Specify Model & Serial Number**

VA1040011

**Models:**  
Serial Numbers:

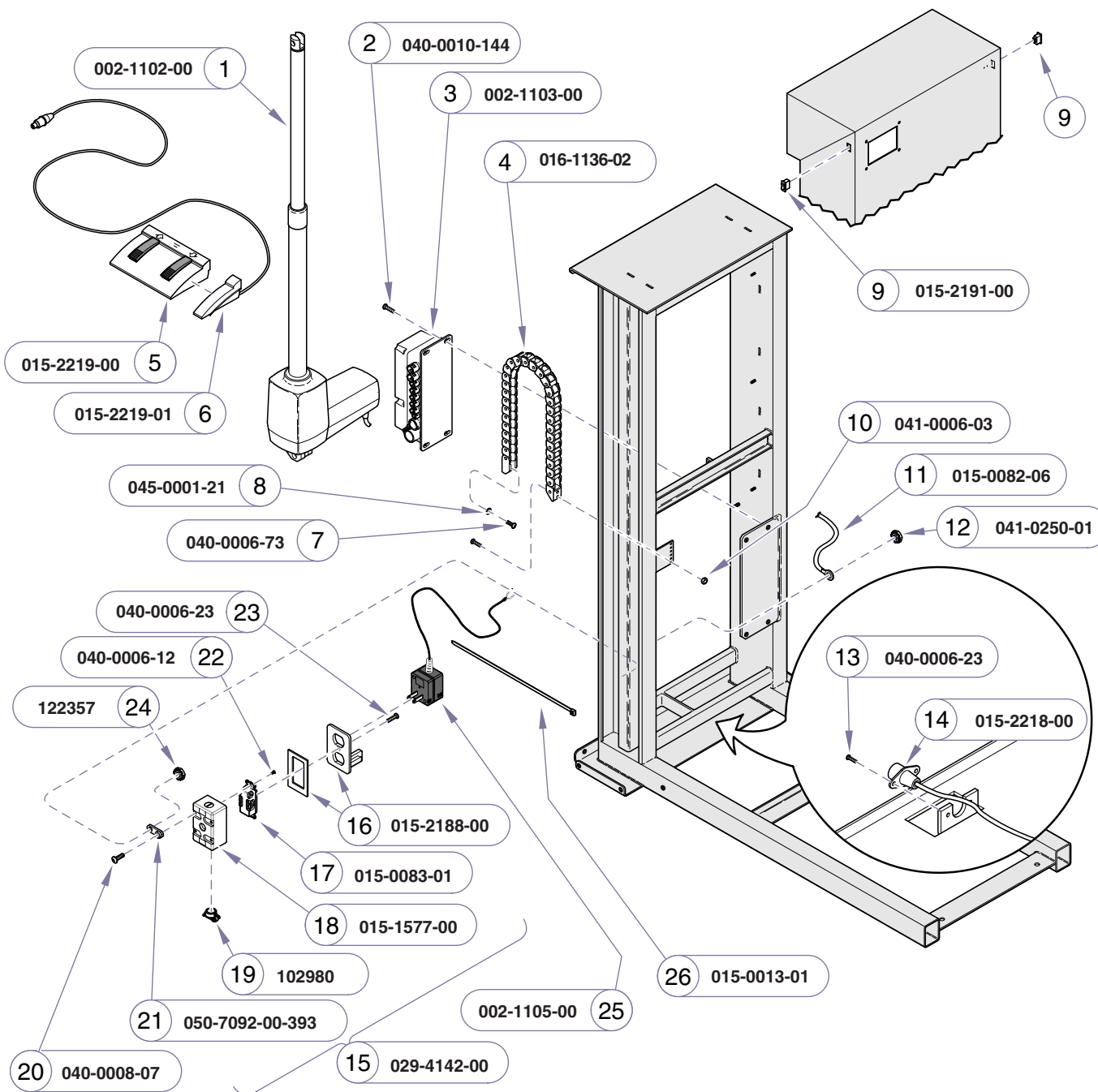
**CMWO & CMWS**  
DMM-1280-05 thru DMM-1453-06

**Column Electrical Comp.**  
(dry tables only)

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**E-7**



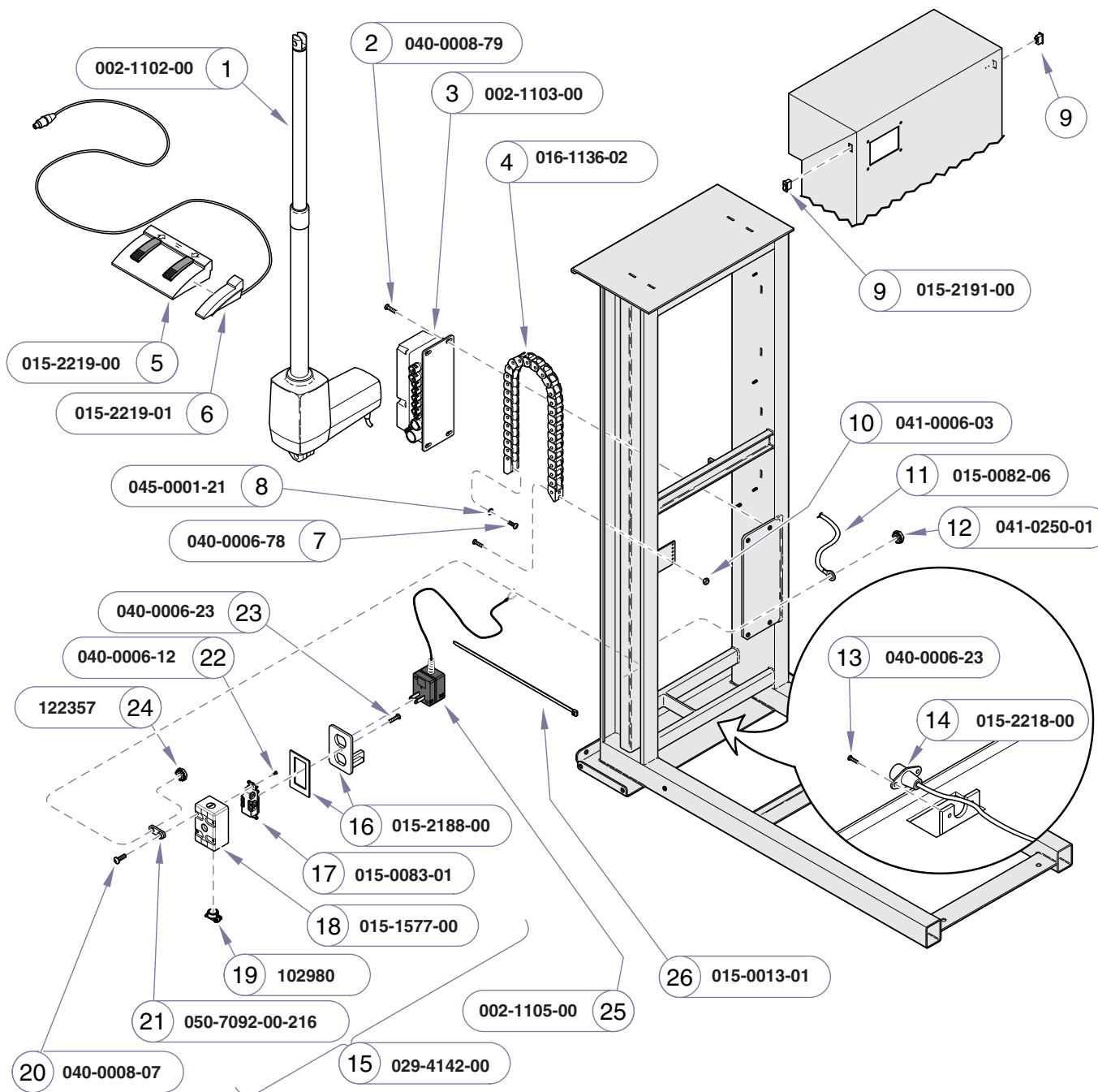


**NOTE: This model was manufactured using White painted components.**

Item	Description	Qty.
1	Actuator Kit (refer to "Wiring Diagram" in Section "D")	1
2	Screw, Pan Head (#10-32 x 1/2")	4
3	Actuator Controller Kit (refer to "Wiring Diagram" in Section "D")	1
4	E-Chain & Mousing Bracket	11
5	Foot Control Pedal Box Assembly	1
6	Foot Control Electronic Box Assembly	1
7	Screw (#6-32 x 3/4")	2
8	Washer	2
9	Rocker Switch	2
10	ESNA Nut (#6-32)	4
11	Grounding Braid (refer to "Wiring Diagram" in Section "D")	1
12	Nylon Insert Lock Nut (1/4"-20)	2
13	Screw (#6-32 x 1/2")	5
14	Foot Control Receptacle Cable (refer to "Wiring Diagram" in Section "D")	Ref
15	Power Box Assembly (Incl. items 15 thru 22 [used only on units equipped with scale])	1
16	• Modified Receptacle Cover Assembly	1
17	• Receptacle Assembly	1
18	• Electrical Enclosure	1
19	• Electrical Enclosure Cable Clamp	1
20	• Screw, Flat Head (#8-32 x 3/8")	4
21	• Mounting Tab	4
22	• Screw, Pan Head (#6-32 x 1/2")	3
23	• Receptacle	1
24	ESNA Nut (#8)	4
25	Scale Transformer Kit (refer to "Wiring Diagram" in Section "D")	1
26	Cable Tie	1

**Always Specify Model & Serial Number**

VA1034011



**NOTE: This model was manufactured using Pebble Grey painted components.**

Item	Description	Qty.
1	Actuator Kit (refer to "Wiring Diagram" in Section "D")	1
2	Screw, Pan Head (#10-32 x 1/2")	4
3	Actuator Controller Kit (refer to "Wiring Diagram" in Section "D")	1
4	E-Chain & Mounting Bracket	1
5	Foot Control Pedal Box Assembly	1
6	Foot Control Electronic Box Assembly	1
7	Screw (#6-32 x 3/4")	2
8	Washer	2
9	Rocker Switch	2
10	ESNA Nut (#6-32)	4
11	Grounding Braid (refer to "Wiring Diagram" in Section "D")	1
12	Nylon Insert Lock Nut (1/4"-20)	2
13	Screw (#6-32 x 1/2")	5
14	Foot Control Receptacle Cable (refer to "Wiring Diagram" in Section "D")	Ref
15	Power Box Assembly (Incl. items 15 thru 22 [used only on units equipped with scale])	1
16	• Modified Receptacle Cover Assembly	1
17	• Receptacle Assembly	1
18	• Electrical Enclosure	1
19	• Electrical Enclosure Cable Clamp	1
20	• Screw, Flat Head (#8-32 x 3/8")	4
21	• Mounting Tab	4
22	• Screw, Pan Head (#6-32 x 1/2")	3
23	• Receptacle	1
24	ESNA Nut (#8)	4
25	Scale Transformer Kit (refer to "Wiring Diagram" in Section "D")	1
26	Cable Tie	1

**Always Specify Model & Serial Number**

VA1034011

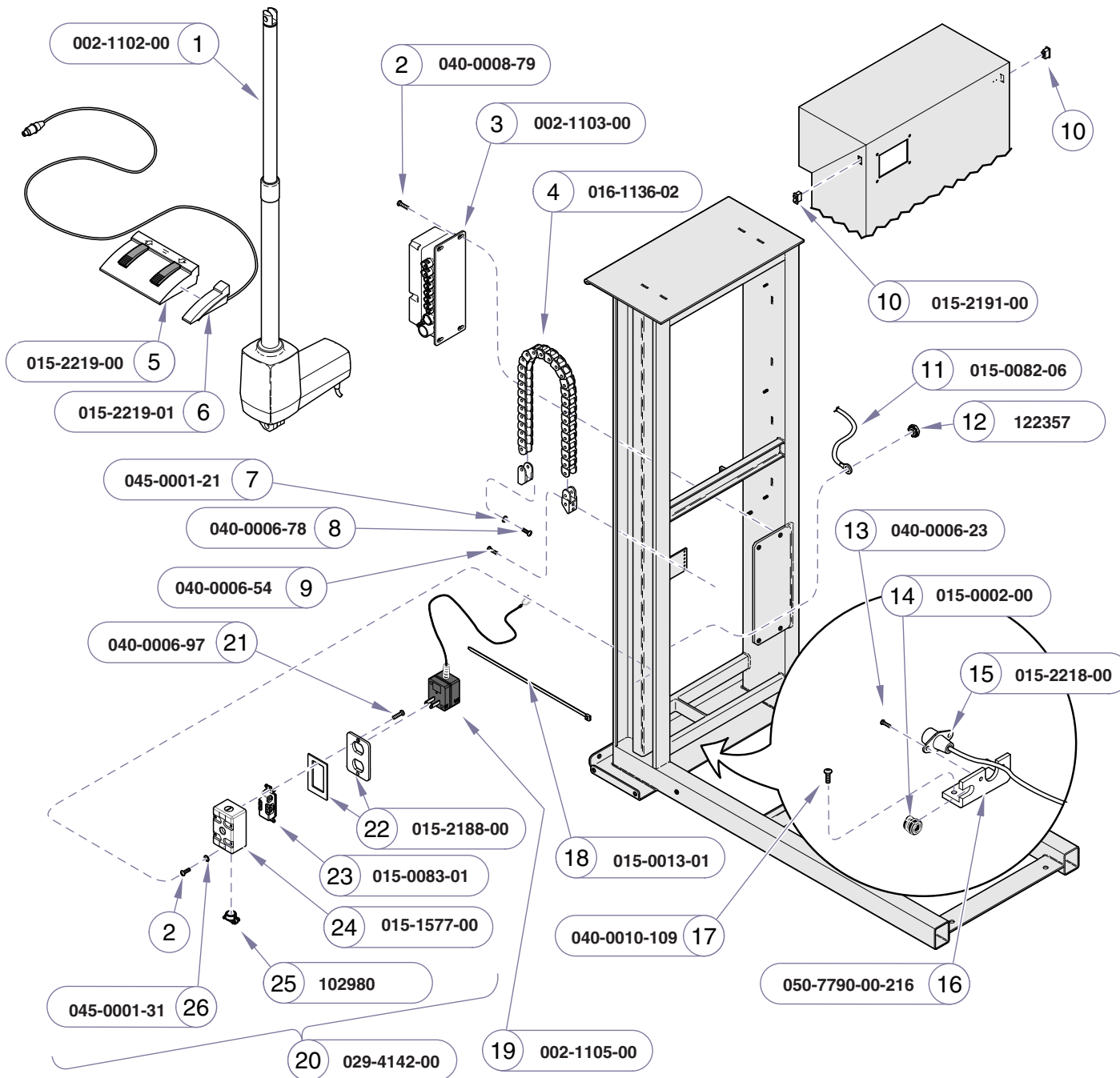
**Models:** **CMWO & CMWS**  
**Serial Numbers:** DMM-1909-08 thru DMM-2028-09

**Column Electrical Comp.**  
 (dry tables only)

**E-7.2**

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**NOTE: This model was manufactured using Pebble Grey painted components.**

Item	Description	Qty.
1	Actuator Kit (refer to "Wiring Diagram" in Section "D")	1
2	Screw, Pan Head (#8-32 x 1/2")	6
3	Actuator Controller Kit (refer to "Wiring Diagram" in Section "D")	1
4	E-Chain & Mounting Bracket	1
5	Foot Control Pedal Box Assembly	1
6	Foot Control Electronic Box Assembly	1
7	Washer	2
8	Screw (#6-32 x 5/8")	2
9	Screw, Flat Head (#6-32 x 5/16")	2
10	Rocker Switch	2
11	Grounding Braid (refer to "Wiring Diagram" in Section "D")	1
12	Nylon Insert Lock Nut (#10-32)	2
13	Screw (#6-32 x 1/2")	5
14	Strain Relief Bushing	1
15	Foot Control Receptacle Cable (refer to "Wiring Diagram" in Section "D")	Ref
16	Strain Relief Bracket	1
17	Screw (#8-24 x 3/8")	2
18	Cable Tie	1
19	Scale Transformer Kit (used only on units equipped with scale) refer to "Wiring Diagram" in Section "D")	1
20	Power Box Assembly (Incl. items 15 thru 22 [used only on units equipped with scale])	1
21	• Screw, Pan Head (#6-32 x 3/8")	2
22	• Junction Box Cover (Incl. gasket)	1
23	• Receptacle Assembly	1
24	• 1 Gang Electrical Box	1
25	• Romex Connector	1
26	Lockwasher	2

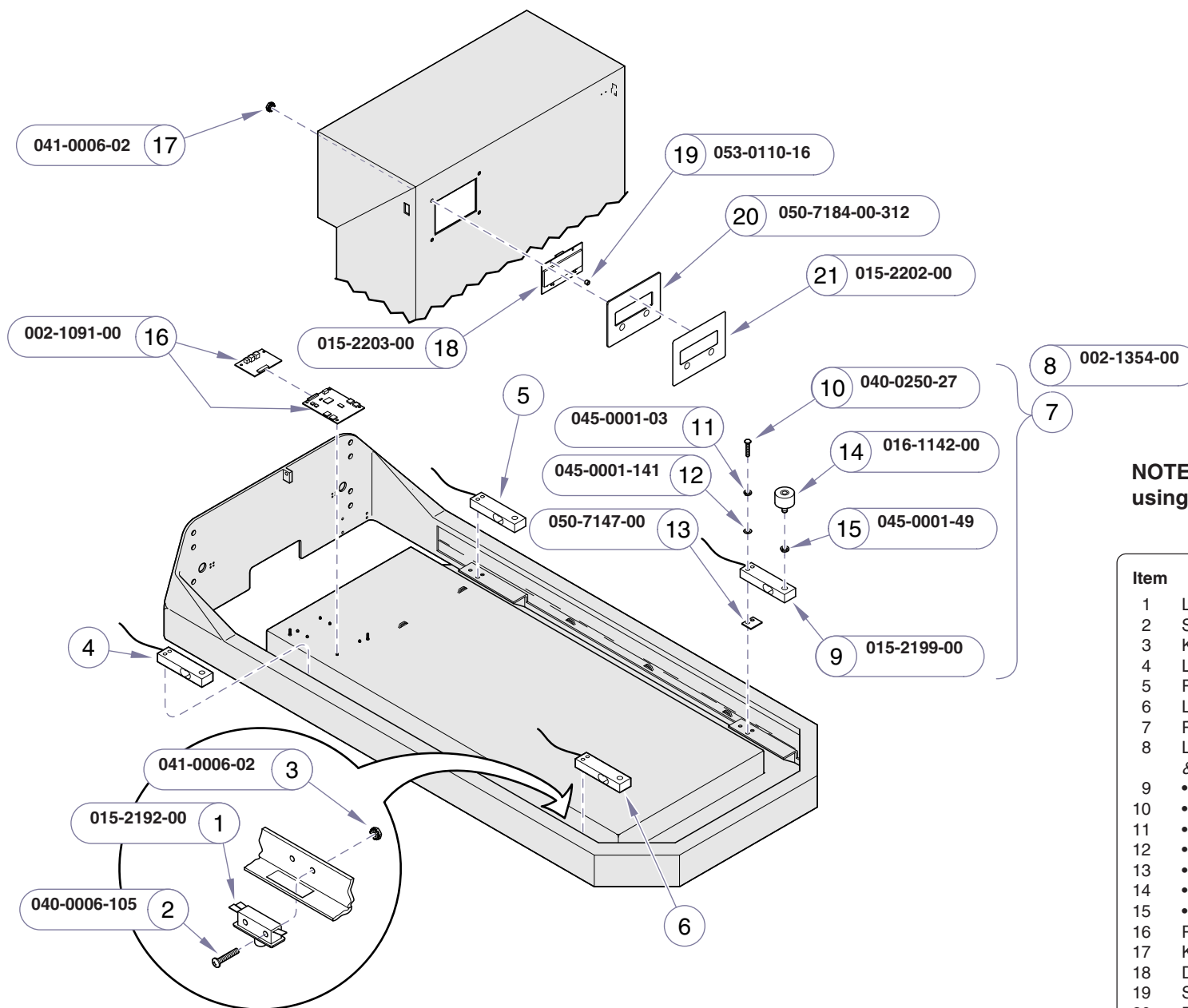
**Always Specify Model & Serial Number**

VA15071

**Column Electrical Comp.**  
(dry tables only)

**Models:**  
Serial Numbers:

**CMWO & CMWS**  
V730066 thru Present



**NOTE:** This model was manufactured using White painted components.

Item	Description	Qty.
1	Limit Switch .....	4
2	Screw (#6-32 x 1") .....	8
3	Keps Nut w/Starwasher (#6-32) .....	8
4	Left Rear Load Cell (location ref. only) .....	Ref
5	Right Rear Load Cell (location ref. only) ..	Ref
6	Left Front Load Cell (location ref. only) ....	Ref
7	Right Front Load Cell (location ref. only) .	Ref
8	Load Cell Kit (incl. four load cells {item 9} & mounting comp. {items 9 thru 15}) .....	1
9	• Load Cell .....	4
10	• Screw (1/4"-20 x 1.5") .....	8
11	• Lockwasher (1/4") .....	8
12	• Washer (1/4") .....	8
13	• Load Cell Spacer .....	4
14	• Vibration Mount .....	4
15	• Flat Washer (3/8") .....	4
16	PC Board .....	1
17	Keps Nut w/Starwasher (#6-32) .....	8
18	Display Scale PC Board .....	1
19	Spacer .....	4
20	Display Board Mount Assembly .....	1
21	Display Overlay .....	1

**Always Specify Model & Serial Number**

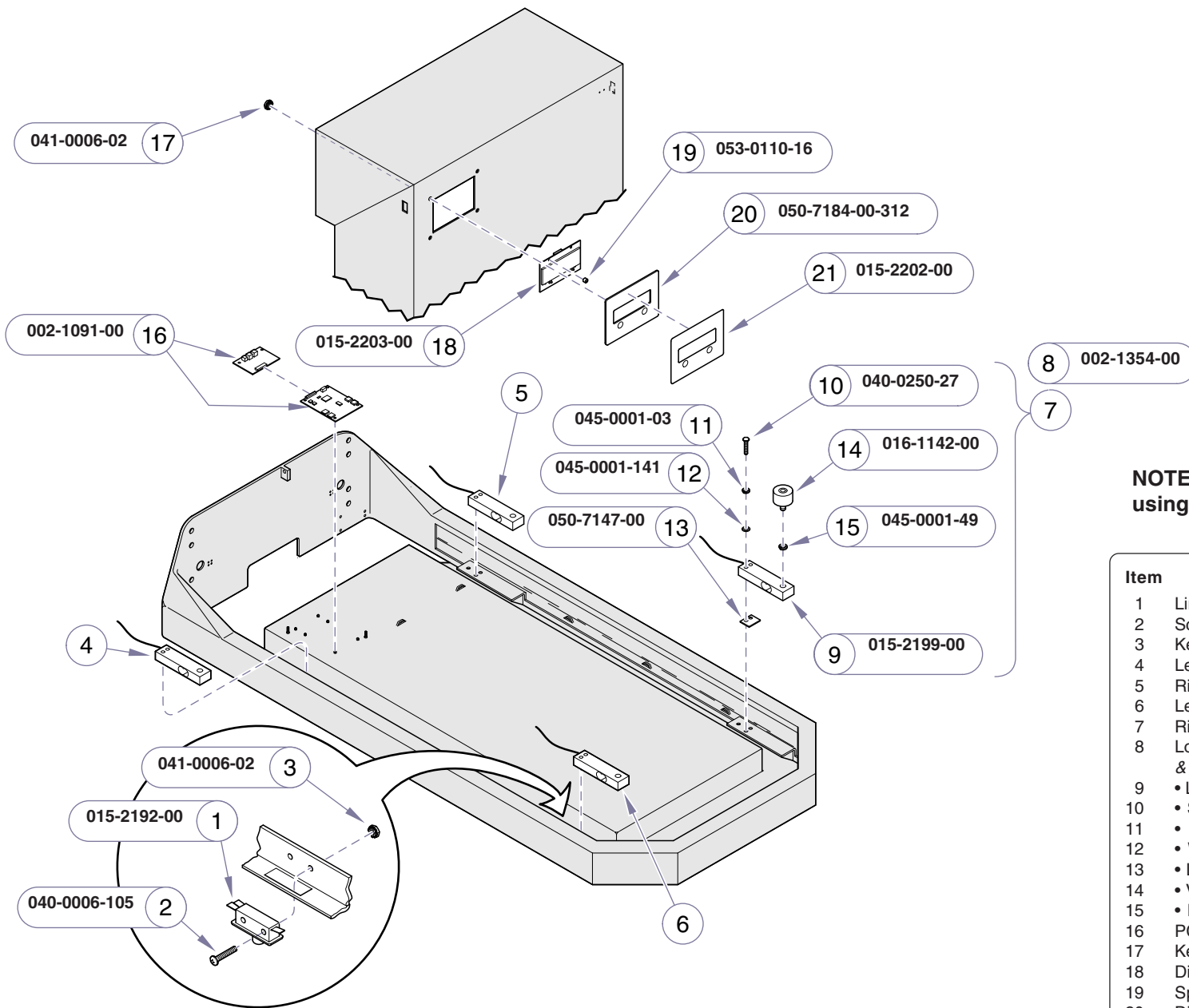
VA1026001

**Models:**  
Serial Numbers:

**CMWO & CMWS**  
DMM-1280-05 thru DMM-1908-08

**Tabletop Electrical Comp.**  
(dry tables only)

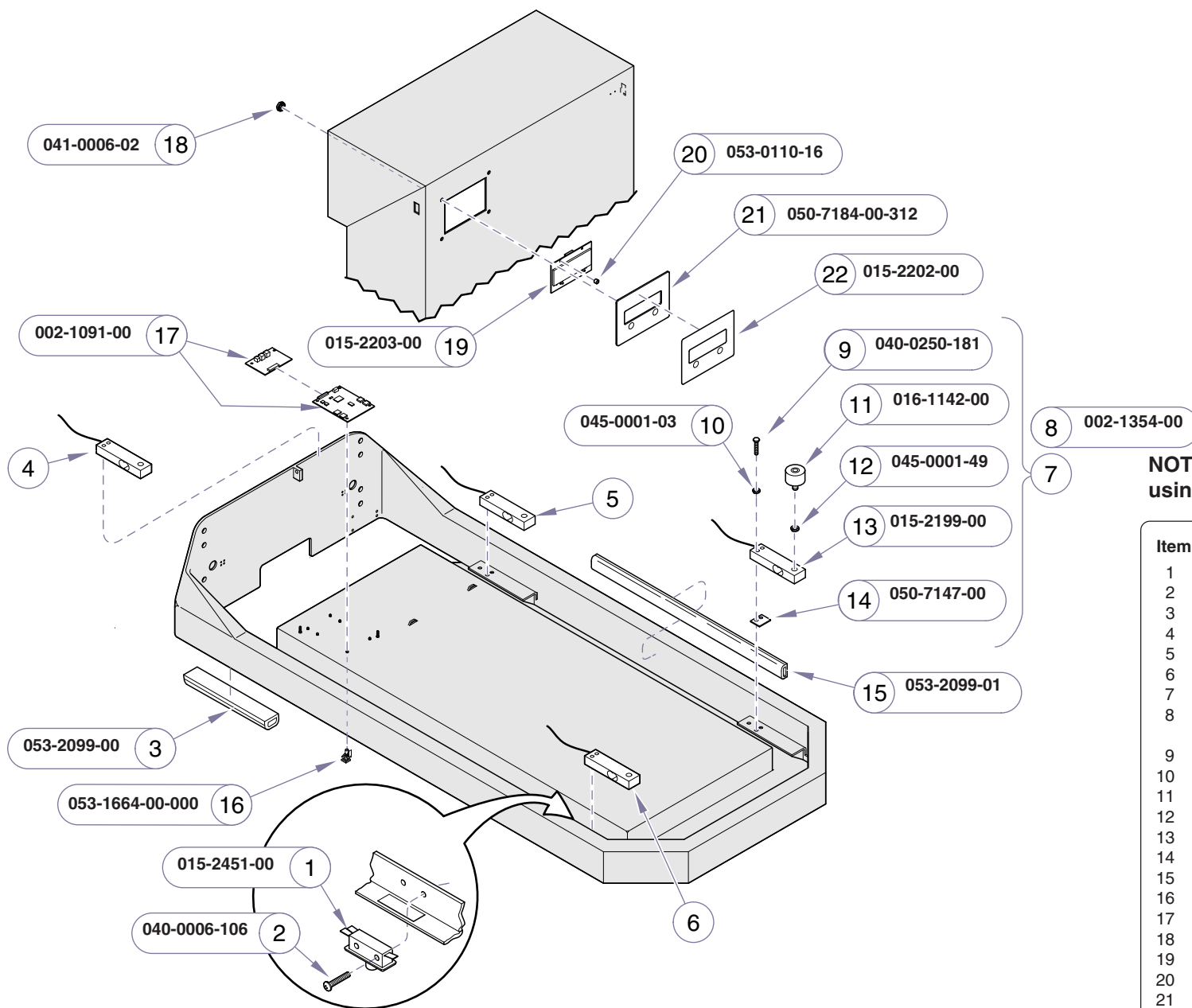
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**NOTE: This model was manufactured using Pebble Grey painted components.**

Item	Description	Qty.
1	Limit Switch .....	4
2	Screw (#6-32 x 1") .....	8
3	Keps Nut w/Starwasher (#6-32) .....	8
4	Left Rear Load Cell (location ref. only) ...	Ref
5	Right Rear Load Cell (location ref. only) ..	Ref
6	Left Front Load Cell (location ref. only) ...	Ref
7	Right Front Load Cell (location ref. only) .	Ref
8	Load Cell Kit (incl. four load cells {item 9} & mounting comp. {items 9 thru 15}) .....	1
9	• Load Cell .....	4
10	• Screw (1/4"-20 x 1.5") .....	8
11	• Lockwasher (1/4") .....	8
12	• Washer (1/4") .....	8
13	• Load Cell Spacer .....	4
14	• Vibration Mount .....	4
15	• Flat Washer (3/8") .....	4
16	PC Board .....	1
17	Keps Nut w/Starwasher (#6-32) .....	8
18	Display Scale PC Board .....	1
19	Spacer .....	4
20	Display Board Mount Assembly .....	1
21	Display Overlay .....	1
<b>Always Specify Model &amp; Serial Number</b>		

VA1026001



**NOTE: This model was manufactured using Pebble Grey painted components.**

Item	Description	Qty.
1	Push Button Switch .....	4
2	Screw (#6-32 x 1") .....	8
3	Wire Guide Channel .....	1
4	Left Rear Load Cell ( <i>location ref. only</i> ) .....	Ref
5	Right Rear Load Cell ( <i>location ref. only</i> ) ..	Ref
6	Left Front Load Cell ( <i>location ref. only</i> ) .....	Ref
7	Right Front Load Cell ( <i>location ref. only</i> ) .	Ref
8	Load Cell Kit ( <i>incl. four load cells {item 13}</i> & mounting comp. {items 9 thru 14}) .....	1
9	• Screw (1/4"-20 x 1.5") .....	8
10	• Lockwasher (1/4") .....	8
11	• Vibration Mount .....	4
12	• Flat Washer (3/8") .....	4
13	• Load Cell .....	4
14	• Load Cell Spacer .....	4
15	Wire Guide Channel .....	2
16	PC Board Standoff .....	6
17	Scale I/O & Controller PCB Kit .....	1
18	Keps Nut w/Starwasher (#6-32) .....	8
19	Display Scale PC Board .....	1
20	Spacer .....	4
21	Display Board Mount Assembly .....	1
22	Display Overlay .....	1

**Always Specify Model & Serial Number**

VA1506I

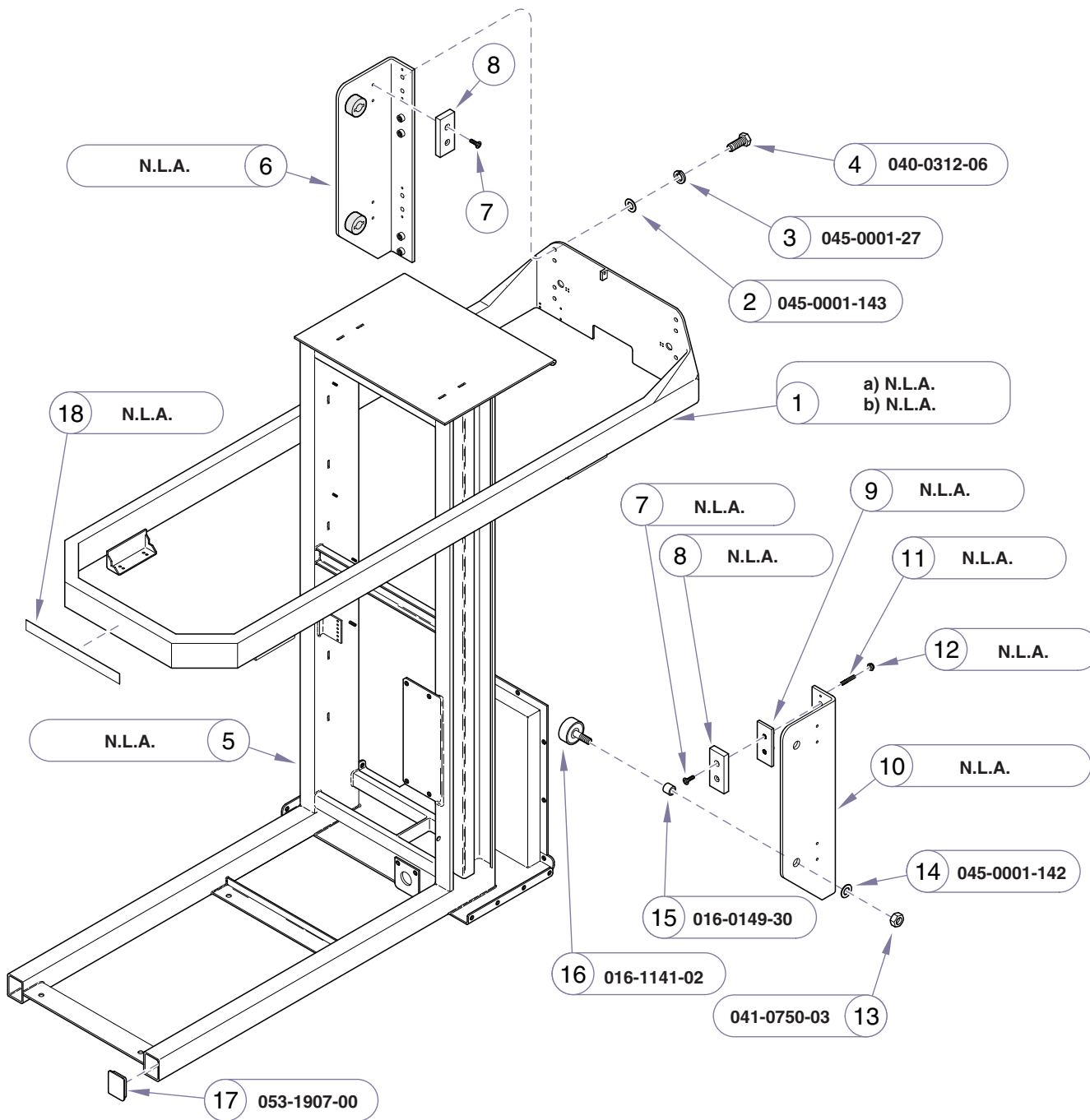
**Models:**  
Serial Numbers:

**CMWO & CMWS**  
V730066 thru Present

**Tabletop Electrical Comp.**  
(dry tables only)

**E-8.2**

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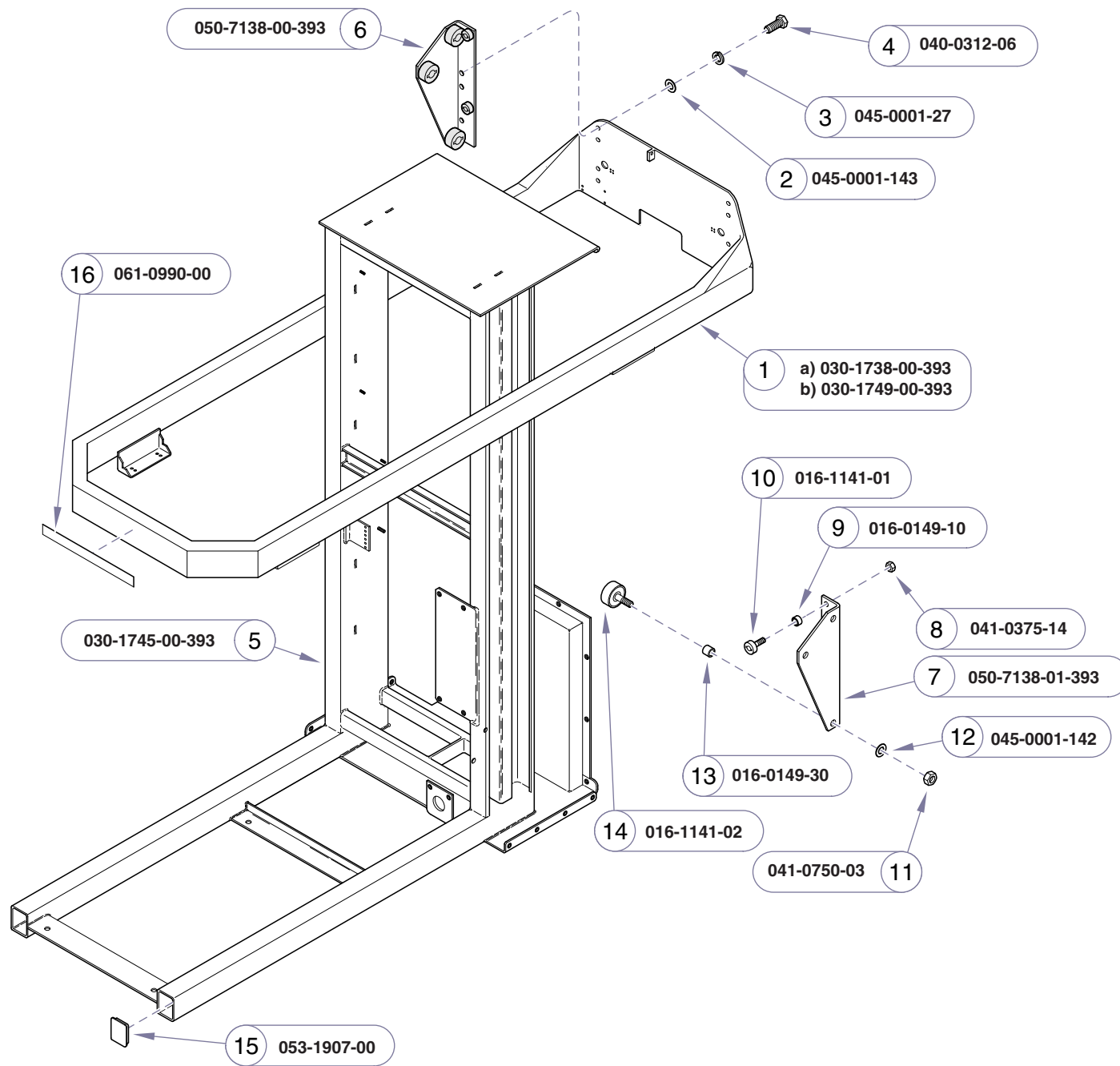
**NOTE:** This model was manufactured using White painted components.

Item	Description	Qty.
1	Tabletop Platform Weldment:	
	a) 45" length .....	1
	b) 60" length .....	1
2	Washer (5/16") .....	8
3	Lockwasher (5/16") .....	8
4	Hex Bolt (5/16"-18 x 1") .....	8
5	Column Weldment .....	1
6	L.H. Roller Bracket (sold as bracket only, [assembled for illustration purposes only]) ..	1
7	Screw .....	16
8	Nylon Slide Pads .....	8
9	Slide Pads Mounting Bracket .....	4
10	R.H. Roller Bracket .....	1
11	Set Screw .....	16
12	Nut .....	6
13	Nut (3/4"-16) .....	6
14	Lockwasher (3/4") .....	6
15	Oilite Bushing .....	4
16	Radial Bearing Dia Roller (1-7/8") .....	4
17	Tube End Caps (1-1/2" x 2") .....	2
18	Canis Major Decal .....	1

**Always Specify Model & Serial Number**

(\*) N.L.A. denotes "No Longer Available"

VA103600I



**NOTE:** This model was manufactured using White painted components.

Item	Description	Qty.
1	Tabletop Platform Weldment:	
	a) 45" length .....	1
	b) 60" length .....	1
2	Washer (5/16") .....	8
3	Lockwasher (5/16") .....	8
4	Hex Bolt (5/16"-18 x 1") .....	8
5	Column Weldment .....	1
6	L.H. Roller Bracket (sold as bracket only, assembled for illustration purposes only) ..	1
7	R.H. Roller Bracket .....	1
8	Hex Nut (3/8"-24) .....	4
9	Oilite Bushing .....	4
10	Column Roller .....	4
11	Nut (3/4"-16) .....	6
12	Lockwasher (3/4") .....	6
13	Oilite Bushing .....	6
14	Radial Bearing Dia Roller (1-7/8") .....	4
15	Tube End Caps (1-1/2" x 2") .....	2
16	Canis Major Decal .....	1

**Always Specify Model & Serial Number**

VA103700i

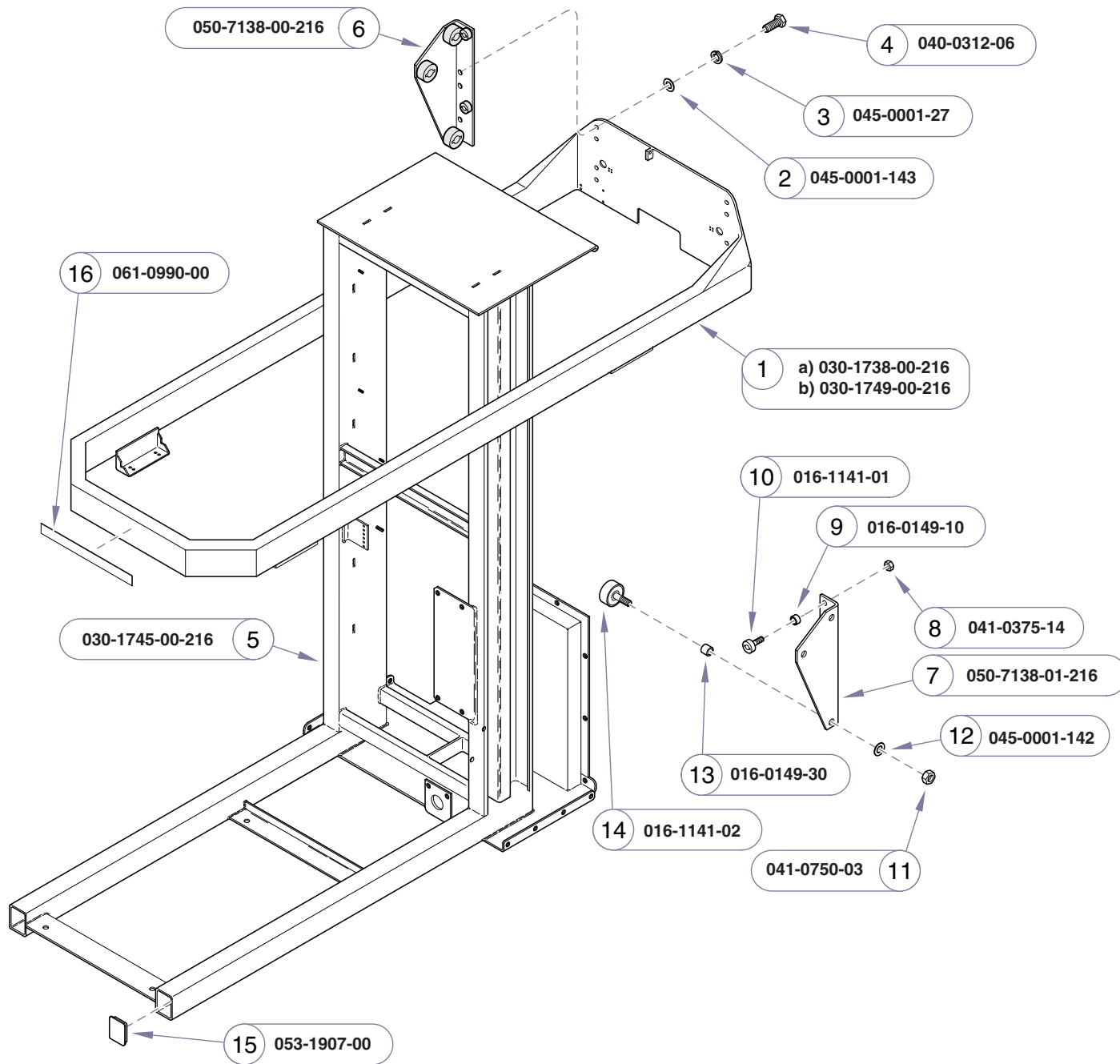
**Models:** **CMDT & CMDT-WS (45 & 60)**  
**Serial Numbers:** DMM-1109-D/T-06 thru DMM-1241-D/T-08

**Column Roller Mechanism**  
(wet tables only)

**E-9.1**

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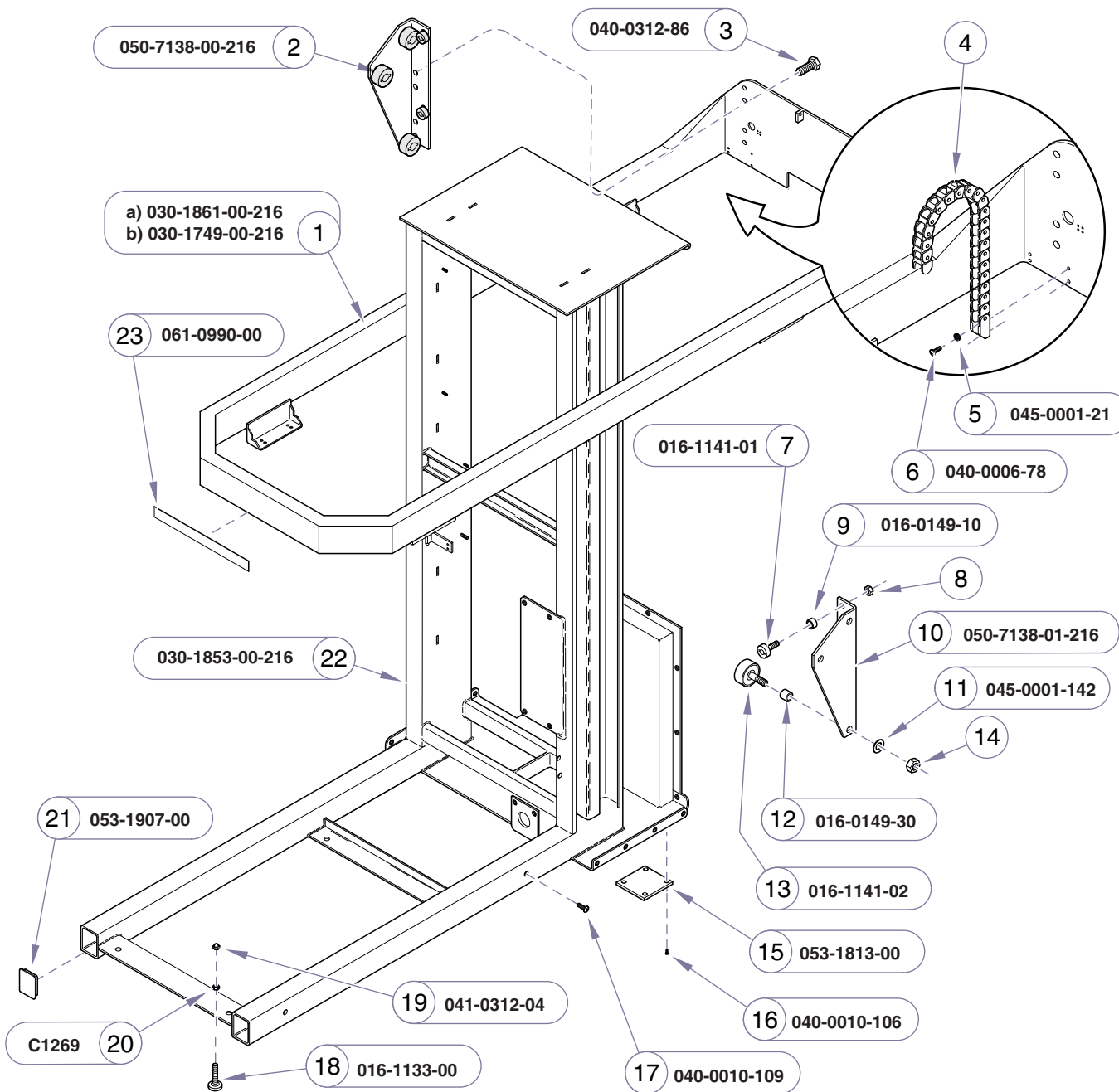




**NOTE:** This model was manufactured using Pebble Grey painted components.

Item	Description	Qty.
1	Tabletop Platform Weldment:	
	a) 45" length .....	1
	b) 60" length .....	1
2	Washer (5/16") .....	8
3	Lockwasher (5/16") .....	8
4	Hex Bolt (5/16"-18 x 1") .....	8
5	Column Weldment .....	1
6	L.H. Roller Bracket ( <i>sold as bracket only, assembled for illustration purposes only</i> ) ..	1
7	R.H. Roller Bracket .....	1
8	Hex Nut (3/8"-24) .....	4
9	Oilite Bushing .....	4
10	Column Roller .....	4
11	Nut (3/4"-16) .....	6
12	Lockwasher (3/4") .....	6
13	Oilite Bushing .....	6
14	Radial Bearing Dia Roller (1-7/8") .....	4
15	Tube End Caps (1-1/2" x 2") .....	2
16	Canis Major Decal .....	1
<b>Always Specify Model &amp; Serial Number</b>		

VA103700i



**NOTE:** This model was manufactured using Pebble Grey painted components.

Item	Description	Qty.
1	Tabletop Platform Weldment:	
a)	45" length .....	1
b)	60" length .....	1
2	L.H. Roller Bracket (sold as bracket only, assembled for illustration purposes only) ..	1
3	Whiz Lock Bolt (5/16"-18 x 7/8") .....	8
4	E-Chain .....	Ref
5	Lockwasher (#6) .....	2
6	Screw (#6 -32 x 5/8") .....	2
7	Radial Bearing Roller (includes item 8) .....	4
8	• Nut (3/8-24) .....	4
9	Oilite Bearing .....	4
10	R.H. Roller Bracket .....	1
11	Lockwasher (3/4") .....	6
12	Oilite Bearing .....	6
13	Radial Bearing Roller (includes item 14) .....	6
14	• Nut (3/4-16) .....	6
15	Skid Pad .....	2
16	Screw (#10-24 x 1/2") .....	8
17	Screw (#10-24 x 3/8") .....	4
18	Leveling Foot .....	2
19	Acorn Nut (5/16"-18) .....	2
20	Hex Nut (5/16"-18) .....	2
21	Tube End Caps (1-1/2" x 2") .....	2
22	Column Weldment .....	1
23	Canis Major Decal .....	1

**Always Specify Model & Serial Number**

VA1508I

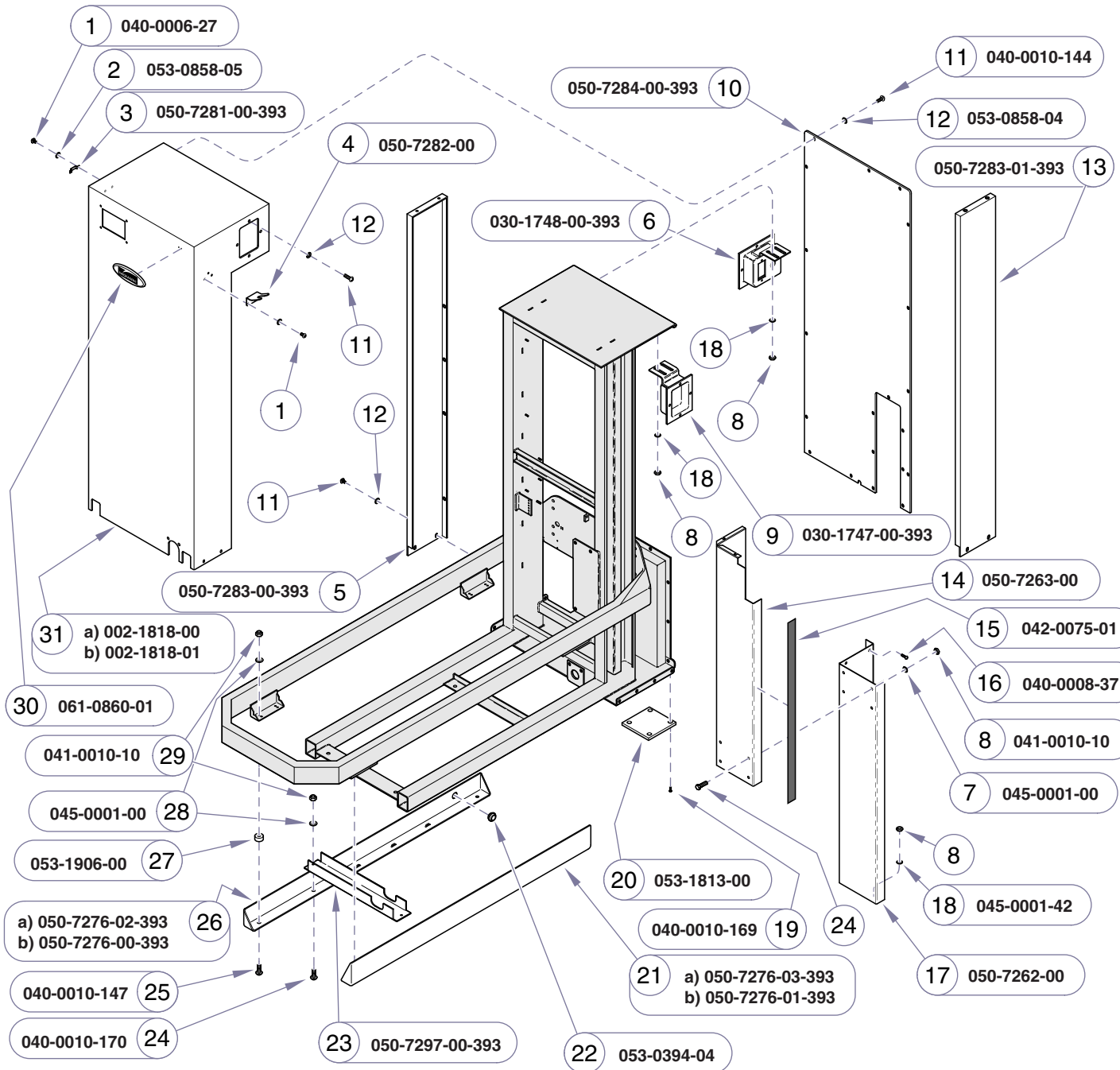
**Models:** **CMDT & CMDT-WS (45 & 60)**  
**Serial Numbers:** V732680 thru Present

**Column Roller Mechanism**  
(wet tables only)

**E-9.3**

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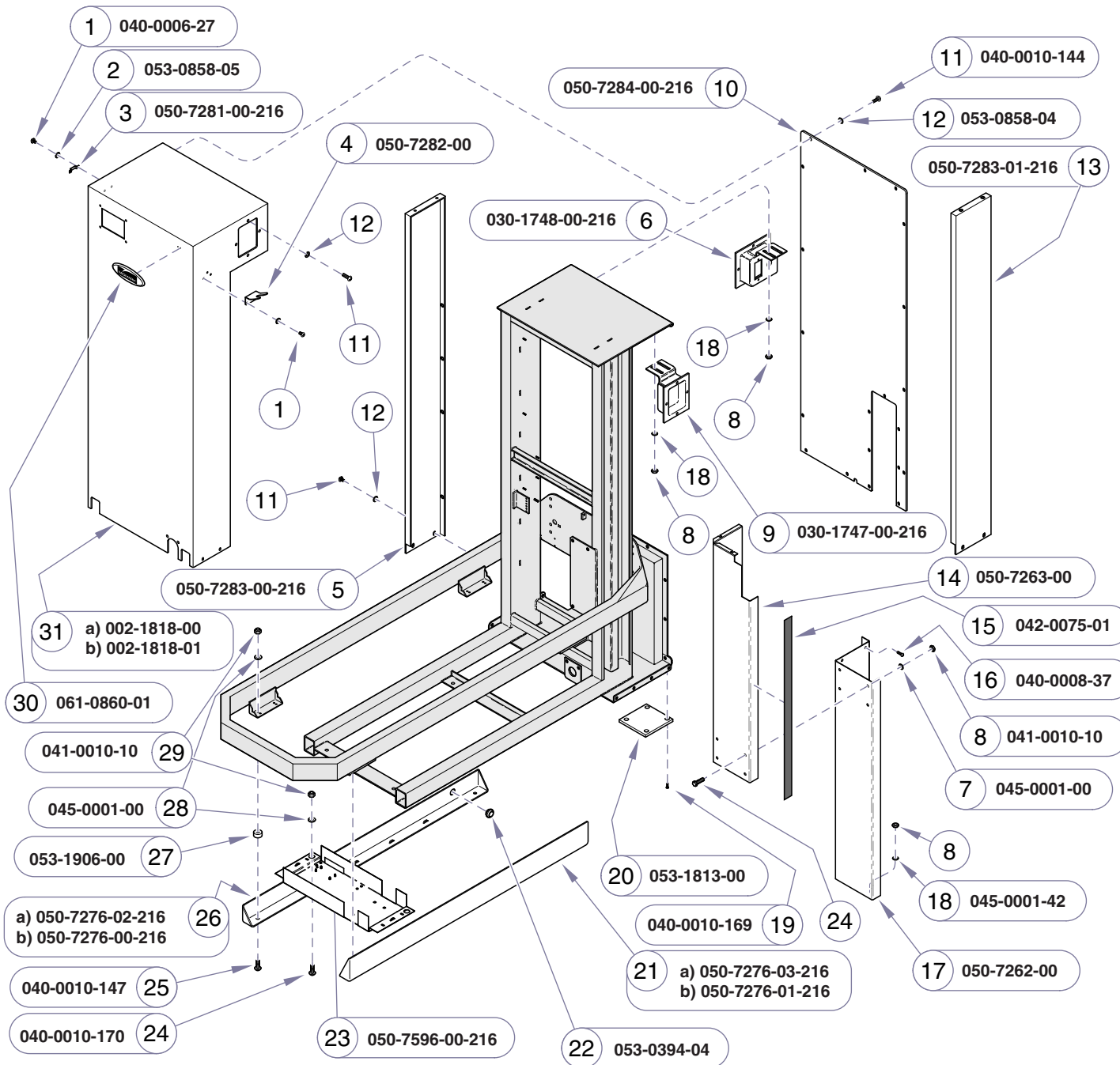




**NOTE:** This model was manufactured using White painted components.

Item	Description	Qty.
1	Screw (#6-32 x 1/2")	5
2	Nylon Washer (#6)	5
3	Hand Control Hanger	11
4	Spray Nozzle Bracket	1
5	Wet Table Left Side Cover	1
6	Receptacle Bracket (left side)	1
7	Plain Washer (#10)	4
8	Uni-Torque Nut (#10-32)	12
9	Spray Valve Holder Bracket (right side)	1
10	Wet Table Back Cover	1
11	Screw, Truss Phillips Hd. (#10-32 x 1/2")	42
12	Nylon Washer (#10)	38
13	Wet Table Right Side Cover	1
14	Upper Water Shield	1
15	Sound Deadener (electrical tape)	88.5"
16	Self Drill Screw (#8-1/2")	3
17	Lower Water Shield	1
18	Washer (#10)	8
19	Flat Head Phillips Screw (#10-32 x 1/2") [apply thread locking adhesive]	8
20	Skid Pad	2
21	R.H. Lower Platform Cover:	
	a) 45" platform	1
	b) 60" platform	1
22	Grommet (units with scale)	1
23	Cross Member Bracket (units w/o scale)	1
24	Screw, Truss Phillips Hd. (#10-32 x 1/2")	6
25	Screw, Pan Hd. (#10-32 x 1 1/4")	4
26	L.H. Lower Platform Cover:	
	a) 45" platform	1
	b) 60" platform	1
27	Cable Shield Spacer	4
28	Plain Washer (#10)	6
29	Uni-Torque Nut (#10-32)	6
30	Midmark Logo Nameplate	1
31	Wet Table Main Shroud:	
	a) units with scale (shown)	1
	b) units without scale	1
<b>Always Specify Model &amp; Serial Number</b>		

VA1029001



**NOTE: This model was manufactured using Pebble Grey painted components.**

Item	Description	Qty.
1	Screw (#6-32 x 1/2")	5
2	Nylon Washer (#6)	5
3	Hand Control Hanger	11
4	Spray Nozzle Bracket	1
5	Wet Table Left Side Cover	1
6	Receptacle Bracket (left side)	1
7	Plain Washer (#10)	4
8	Uni-Torque Nut (#10-32)	12
9	Spray Valve Holder Bracket (right side)	1
10	Wet Table Back Cover	1
11	Screw, Truss Phillips Hd. (#10-32 x 1/2")	42
12	Nylon Washer (#10)	38
13	Wet Table Right Side Cover	1
14	Upper Water Shield	1
15	Sound Deadener (electrical tape)	88.5"
16	Self Drill Screw (#8-1/2")	3
17	Lower Water Shield	1
18	Washer (#10)	8
19	Flat Head Phillips Screw (#10-32 x 1/2")	8
20	Skid Pad	2
21	R.H. Lower Platform Cover:	
	a) 45" platform	1
	b) 60" platform	1
22	Grommet (units with scale)	1
23	Cross Member Bracket (units w/o scale)	1
24	Screw, Truss Phillips Hd. (#10-32 x 1/2")	8
25	Screw, Pan Hd. (#10-32 x 1 1/4")	4
26	L.H. Lower Platform Cover:	
	a) 45" platform	1
	b) 60" platform	1
27	Cable Shield Spacer	4
28	Plain Washer (#10)	8
29	Uni-Torque Nut (#10-32)	8
30	Midmark Logo Nameplate	1
31	Wet Table Main Shroud:	
	a) units with scale (shown)	1
	b) units without scale	1

**Always Specify Model & Serial Number**

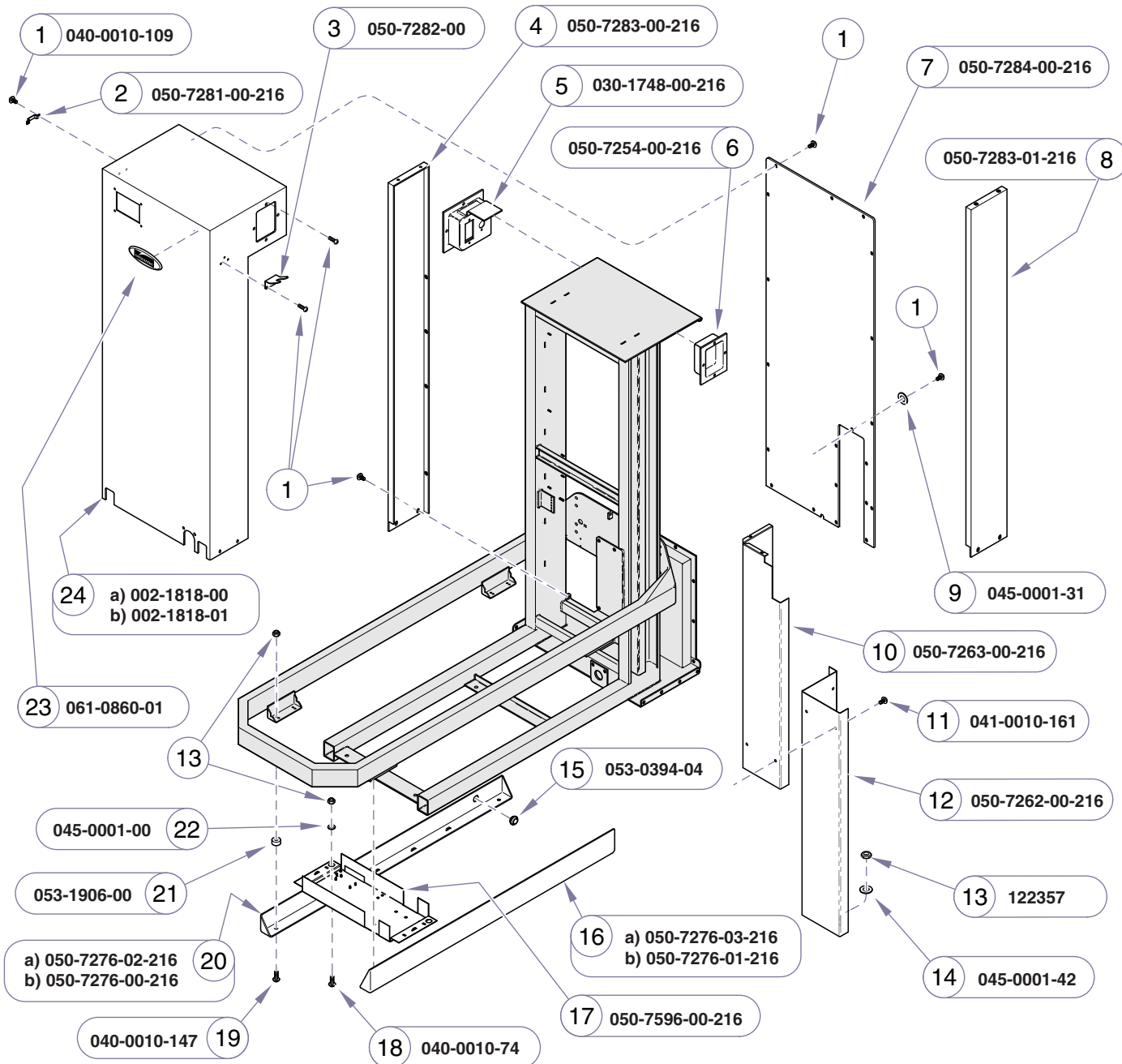
VA1029001

**Models:** **CMDT & CMDT-WS (45 & 60)**  
**Serial Numbers:** DMM-1242-D/T-08 thru DMM-1288-D/T-09

**Covers and Fasteners**  
 (wet tables only)

**E-10.1**

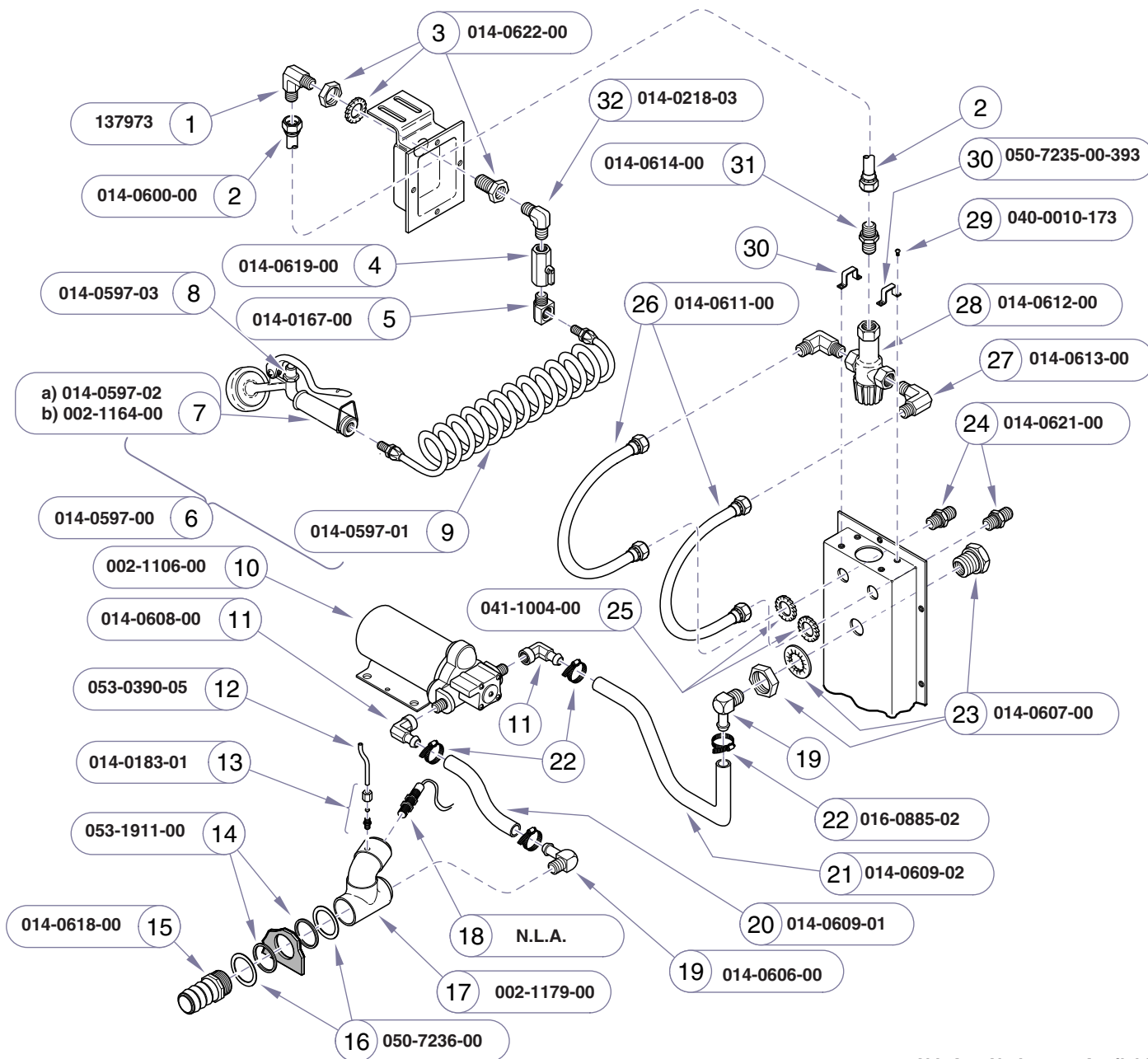
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**NOTE: This model was manufactured using Pebble Grey painted components.**

Item	Description	Qty.
1	Screw, Pan Hd. (#10-24 x 3/8")	47
2	Hand Control Hanger	11
3	Spray Nozzle Bracket	1
4	Wet Table Left Side Cover	1
5	Receptacle Bracket (left side)	1
6	Spray Valve Holder Bracket (right side)	1
7	Wet Table Back Cover	1
8	Wet Table Right Side Cover	1
9	Lockasher (#10)	1
10	Upper Water Shield	1
11	Screw, Pan Hd. (#10-24 x 1/4")	4
12	Lower Water Shield	1
13	Keps Nut w/ ext. Lockwasher (#10-32)	12
14	Plain Washer	4
15	Grommet (units with scale)	1
16	R.H. Lower Platform Cover:	
	a) 45" platform	1
	b) 60" platform	1
17	Cross Member Bracket (units w/o scale)	1
18	Screw, Pan Hd. (#10-32 x 3/8")	4
19	Screw, Pan Hd. (#10-32 x 1 1/4")	4
20	L.H. Lower Platform Cover:	
	a) 45" platform	1
	b) 60" platform	1
21	Cable Shield Spacer	4
22	Plain Washer (#10)	4
23	Midmark Logo Nameplate	1
24	Wet Table Main Shroud:	
	a) units with scale (shown)	1
	b) units without scale	1
<b>Always Specify Model &amp; Serial Number</b>		

VA1509I



**NOTE:** This model was manufactured using White painted components.

Item	Description	Qty.
1	Elbow (1/4" MPT x 1/4" MPT) .....	2
2	Temp Control Valve Outlet Hose (48") .....	1
3	Bulkhead Fitting (1/4 NPT x 1/2 STR THD) .....	1
4	Water Shutoff Valve (1/4" NPT) .....	1
5	Female Elbow Fitting (3/8"m to 3/8"f) .....	1
6	Spray Hose Assy. (includes items 7 & 9) ....	1
7	• Spray Valve w/ Handle (includes items 8) a) aluminum construction (standard) .....	1
	b) brass construction (special) .....	1
8	• Bonnet Assembly Kit (for use on aluminum units only) .....	1
9	• Spray Hose .....	1
10	Wet Table Water Pump Kit .....	1
11	Bulkhead Fitting (1/2" NPT x 1 1/8"-14) .....	2
12	Clear Breather Hose (1/4") .....	60"
13	Male Connector (1/4") .....	1
14	Water Reservoir Gasket (1.75" ID x 2.5" OD) .....	2
15	Hose Barb Adapter (1-1/4" MPT X 1-1/2") ...	1
16	Water Reservoir Washer (1.75" ID x 2.5" OD) .....	2
17	Water Sensor and Reservoir Kit (includes item 18) .....	1
18	Water Sensor & Sensor Cable Kit (refer to "Wiring Diagram" in Section "D") .....	1
19	Male Elbow Barb (1/2 NPT X 1/2") .....	2
20	Clear Drain Hose (3/4") .....	6"
21	Clear Drain Hose (3/4") .....	17"
22	Hose Clamp .....	4
23	Female Fitting (3/4") .....	1
24	Garden Hose Adapter (1/2" MPT) .....	2
25	Gripping Bulkhead Nut .....	2
26	Flexible Hose (1/2" NPT) .....	2
27	Male Elbow (1/2" NPT X 1/2" COMP) .....	2
28	Temperature Control Valve .....	1
29	Screw (#10-32 x 1/4") .....	4
30	Mixer Valve Retaining Bracket .....	2
31	Adapter (1/2" NPT X 3/8" COMP) .....	1

N.L.A. = No Longer Available

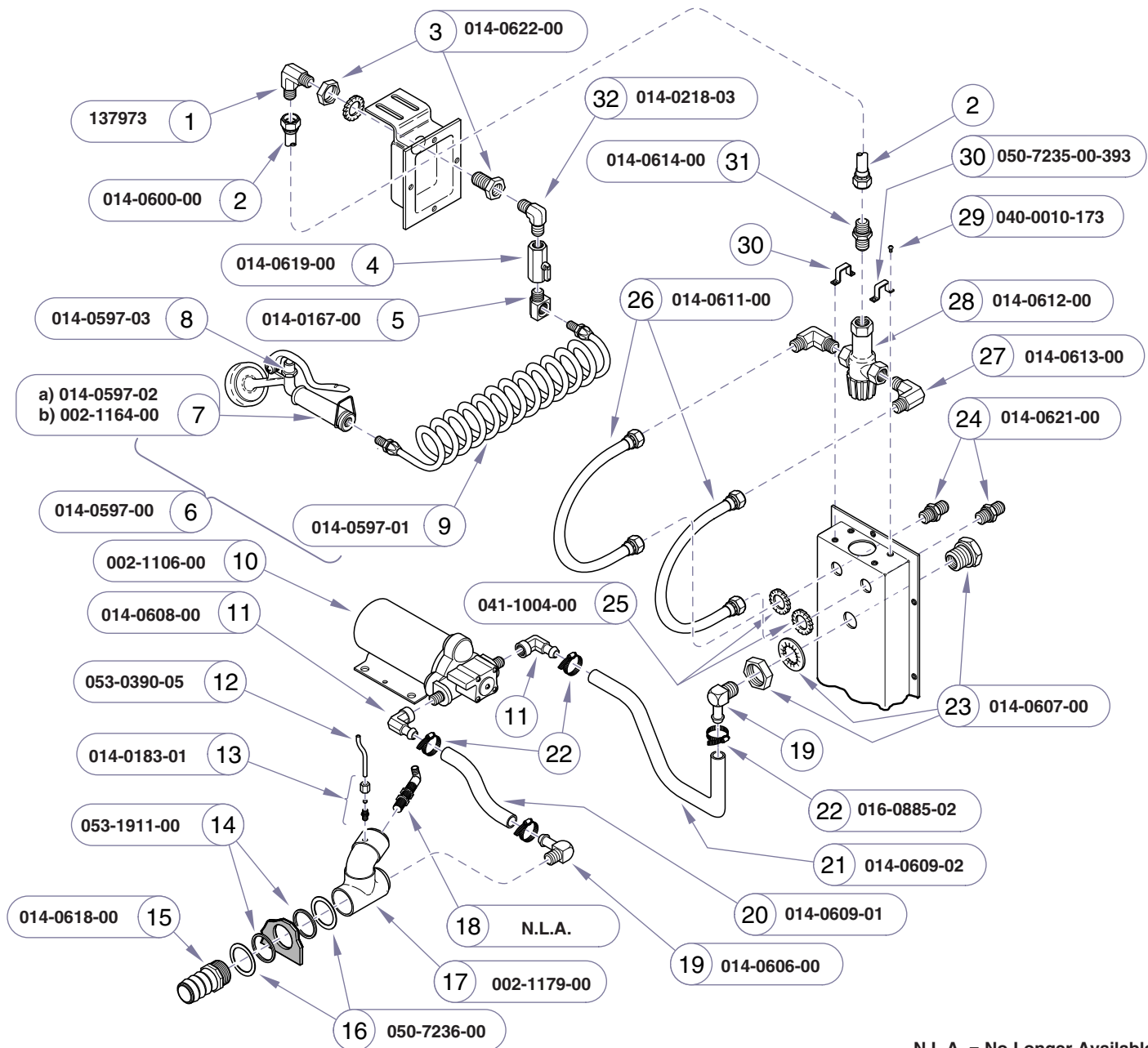
VA103200i

**Models:** **CMDT & CMDT-WS (45 & 60)**  
**Serial Numbers:** DMM-1070-D/T-05 thru DMM-1474-D/T-06

**Water System**  
 (wet tables only)

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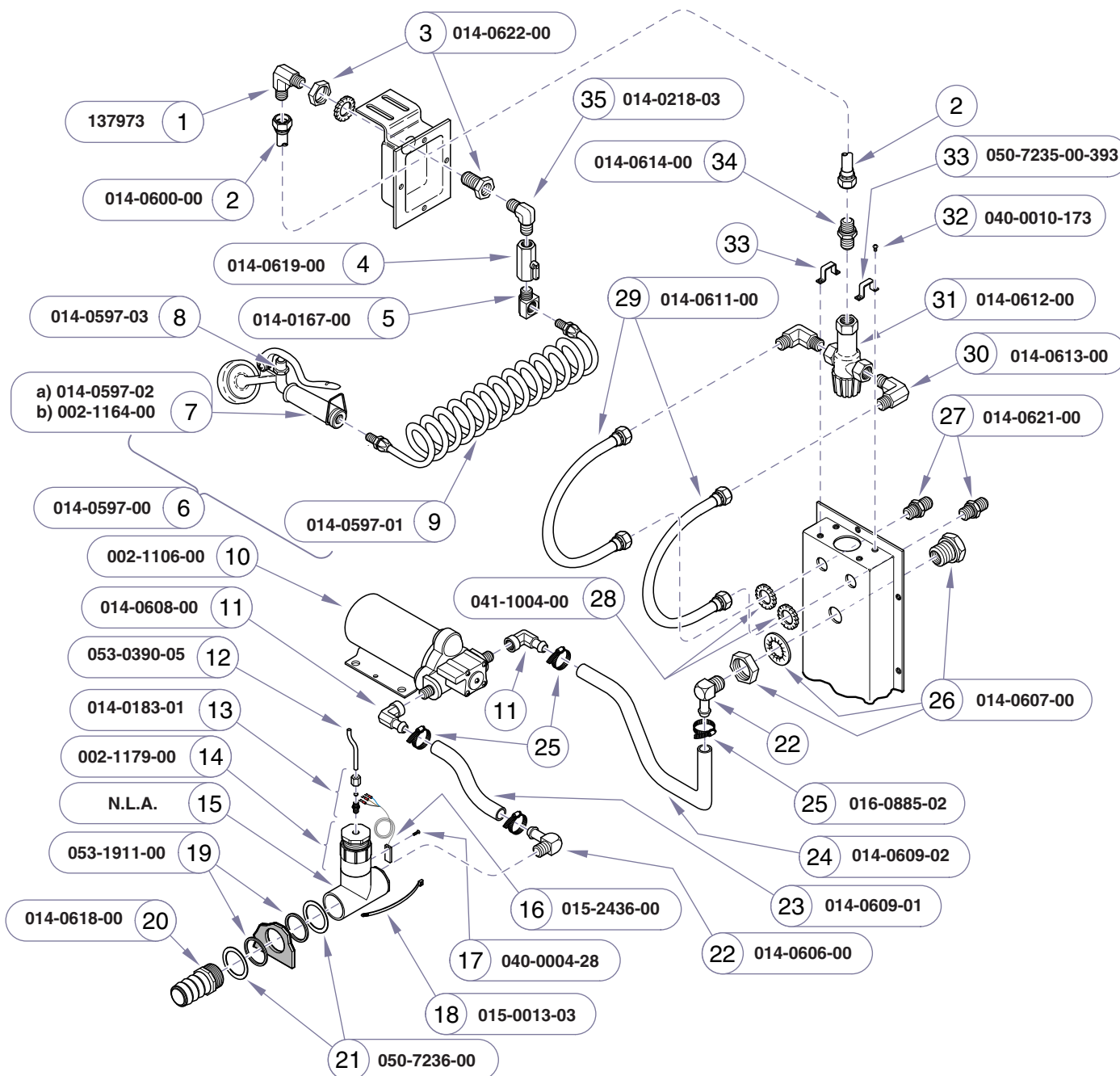
N.L.A. = No Longer Available

**NOTE:** This model was manufactured using White painted components.

Item	Description	Qty.
1	Elbow (1/4" MPT x 1/4" MPT) .....	2
2	Temp Control Valve Outlet Hose (48") {includes item 1} .....	1
3	Bulkhead Fitting (1/4 NPT x 1/2 STR THD) .....	1
4	Water Shutoff Valve (1/4" NPT) .....	1
5	Female Elbow Fitting (3/8"m to 3/8"f) .....	1
6	Spray Hose Assy. (includes items 7 & 9) ....	1
7	• Spray Valve w/ Handle (includes items 8) a) aluminum construction (standard) .....	1
8	b) brass construction (special) .....	1
9	• Bonnet Assembly Kit (for use on aluminum units only) .....	1
10	• Spray Hose .....	1
11	Wet Table Water Pump Kit .....	1
12	Bulkhead Fitting (1/2" NPT x 1 1/8"-14) .....	2
13	Clear Breather Hose (1/4") .....	60"
14	Male Connector (1/4") .....	1
15	Water Reservoir Gasket (1.75" ID x 2.5" OD) .....	2
16	Hose Barb Adapter (1-1/4" MPT X 1-1/2") ...	1
17	Water Reservoir Washer (1.75" ID x 2.5" OD) .....	2
18	Water Sensor and Reservoir Kit (includes item 18) .....	1
19	Water Sensor Kit (Does not include cable, refer to "Wiring Diagram" in Section "D") ....	1
20	Male Elbow Barb (1/2 NPT X 1/2") .....	2
21	Clear Drain Hose (3/4") .....	6"
22	Clear Drain Hose (3/4") .....	17"
23	Hose Clamp .....	4
24	Female Fitting (3/4") .....	1
25	Garden Hose Adapter (1/2" MPT) .....	2
26	Gripping Bulkhead Nut .....	2
27	Flexible Hose (1/2" NPT) .....	2
28	Male Elbow (1/2" NPT X 1/2" COMP) .....	2
29	Mixing Valve .....	1
30	Screw (#10-32 x 1/4") .....	4
31	Mixer Valve Retaining Bracket .....	2
32	Adapter (1/2" NPT X 3/8" COMP) .....	1
32	Elbow (1/4" MPT x 1/4" MPT) .....	1

**Always Specify Model & Serial Number**

VA1042001



**NOTE: This model was manufactured using White painted components.**

Item	Description	Qty.
1	Elbow (1/4" MPT x 1/4" MPT) .....	2
2	Temp Control Valve Outlet Hose (48") {includes item 1} .....	1
3	Bulkhead Fitting (1/4 NPT x 1/2 STR THD) .....	1
4	Water Shutoff Valve (1/4" NPT) .....	1
5	Female Elbow Fitting (3/8"m to 3/8"f) .....	1
6	Spray Hose Assy. (includes items 7 & 9) ...	1
7	• Spray Valve w/ Handle (includes items 8) a) aluminum construction (standard) .....	1
	b) brass construction (special) .....	1
8	• Bonnet Assembly Kit (for use on aluminum units only) .....	1
9	• Spray Hose .....	1
10	Wet Table Water Pump Kit .....	1
11	Bulkhead Fitting (1/2" NPT x 1 1/8"-14) .....	2
12	Clear Breather Hose (1/4") .....	60"
13	Male Connector (1/4") .....	1
14	Water Sensor and Reservoir Kit (includes items 15, 16 & 18) .....	1
15	• Water Reservoir PVC Assembly .....	1
16	• Water Sensor Smart Level .....	1
17	Screw (#4-40 x 1/2) Add Silicone Sealant ...	2
18	• Cable Tie .....	1
19	Water Reservoir Gasket (1.75" ID x 2.5" OD) .....	2
20	Hose Barb Adapter (1-1/4" MPT X 1-1/2") ...	1
21	Water Reservoir Washer (1.75" ID x 2.5" OD) .....	2
22	Male Elbow Barb (1/2 NPT X 1/2") .....	2
23	Clear Drain Hose (3/4") .....	6"
24	Clear Drain Hose (3/4") .....	17"
25	Hose Clamp .....	4
26	Female Fitting (3/4") .....	1
27	Garden Hose Adapter (1/2" MPT) .....	2
28	Gripping Bulkhead Nut .....	2
29	Flexible Hose (1/2" NPT) .....	2
30	Male Elbow (1/2" NPT X 1/2" COMP) .....	2
31	Mixing Valve .....	1
32	Screw (#10-32 x 1/4") .....	4
33	Mixer Valve Retaining Bracket .....	2
34	Adapter (1/2" NPT X 3/8" COMP) .....	1
35	Elbow (1/4" MPT x 1/4" MPT) .....	1

**Always Specify Model & Serial Number**

N.L.A. = No Longer Available

VA104201i

**Models:** **CMDT & CMDT-WS (45 & 60)**  
**Serial Numbers:** DMM-1238-D/T-08 thru DMM-1241-D/T-08

**Water System**  
 (wet tables only)

**E-11.2**

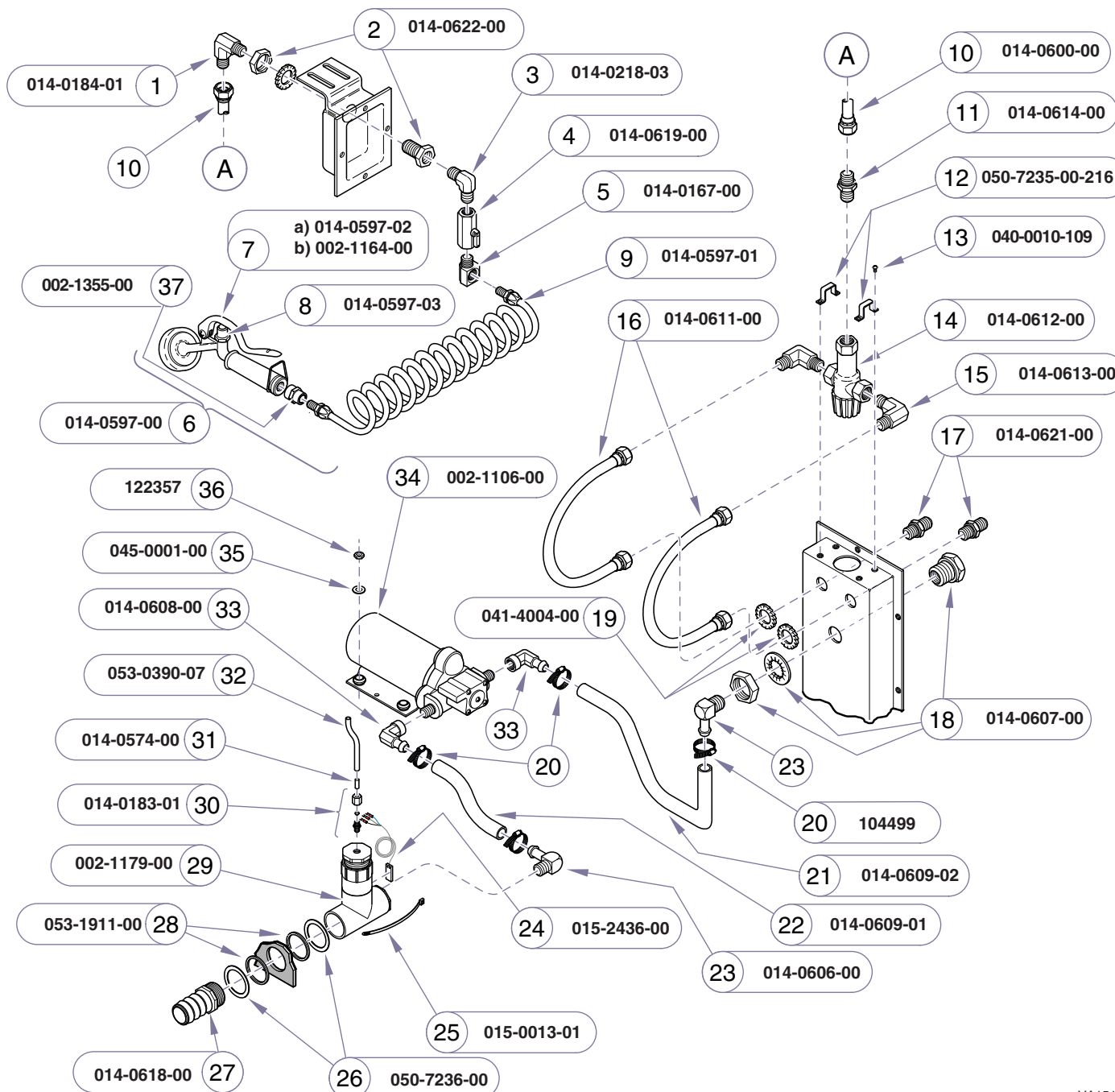
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Item	Description	Qty.
1	Elbow (1/4" MPT x 1/4" MPT) .....	2
2	Temp Control Valve Outlet Hose (48") {includes item 1}.....	1
3	Bulkhead Fitting (1/4 NPT x 1/2 STR THD)	1
4	Water Shutoff Valve (1/4" NPT).....	1
5	Female Elbow Fitting (3/8"m to 3/8"f) .....	1
6	Spray Hose Assy. (includes items 7 & 9) ....	1
7	• Spray Valve w/ Handle (includes items 8) a) aluminum construction (standard) .....	1
	b) brass construction (special) .....	1
8	• Bonnet Assembly Kit (for use on aluminum units only) .....	1
9	• Spray Hose .....	1
10	Wet Table Water Pump Kit .....	1
11	Bulkhead Fitting (1/2" NPT x 1 1/8"-14) .....	2
12	Clear Breather Hose (1/4") .....	60"
13	Male Connector (1/4") .....	1
14	Water Sensor and Reservoir Kit (includes item 15, 16 and 18) .....	1
15	• Water Reservoir PVC Assembly .....	1
16	• Water Sensor Smart Level .....	1
17	Screw (#4-40 x 1/2) Add Silicone Sealant ...	2
18	• Cable Tie .....	1
19	Water Reservoir Gasket (1.75" ID x 2.5" OD) .....	2
20	Hose Barb Adapter(1-1/4" MPT X 1-1/2") ...	1
21	Water Reservoir Washer (1.75" ID x 2.5" OD) .....	2
22	Male Elbow Barb (1/2 NPT X 1/2") .....	2
23	Clear Drain Hose (3/4") .....	6"
24	Clear Drain Hose (3/4").....	17"
25	Hose Clamp .....	4
26	Female Fitting (3/4") .....	1
27	Garden Hose Adapter (1/2" MPT) .....	2
28	Gripping Bulkhead Nut .....	2
29	Flexible Hose (1/2" NPT) .....	2
30	Male Elbow (1/2" NPT X 1/2" COMP) .....	2
31	Mixing Valve .....	1
32	Screw (#10-32 x 1/4") .....	4
33	Mixer Valve Retaining Bracket .....	2
34	Adapter (1/2" NPT X 3/8" COMP).....	1
35	Elbow (1/4" MPT x 1/4" MPT) .....	1

**Always Specify Model & Serial Number**

**CMDT & CMDT-WS (45 & 60)**  
DMM-1242-D/T-08 thru DMM-1288-D/T-09



**NOTE:** This model was manufactured using **Pebble Grey** painted components.

Item	Description	Qty.
1	Elbow (1/4" MPT x 1/4" MPT) .....	2
2	Bulkhead Fitting (1/4 NPT x 1/2 STR THD) ..	1
3	Elbow (1/4" MPT x 1/4" MPT) .....	1
4	Water Shutoff Valve (1/4" NPT) .....	1
5	Female Elbow Fitting (3/8"m to 3/8"f) .....	1
6	Spray Hose Assy. (includes items 7 & 9) .....	1
7	• Spray Valve w/ Handle (includes item 8)	
	a) aluminum construction (standard) .....	1
	b) brass construction (special) .....	1
8	• Bonnet Assembly Kit	
	(for use on aluminum units only) .....	1
9	• Spray Hose .....	1
10	Temp Control Valve Outlet Hose (48") .....	1
11	Adapter (1/2" NPT X 3/8" COMP) .....	1
12	Mixer Valve Retaining Bracket .....	2
13	Screw (#10-24 x 1/4") .....	4
14	Temperature Control Valve .....	1
15	Male Elbow (1/2" NPT X 1/2" COMP) .....	2
16	Flexible Hose (1/2" NPT) .....	2
17	Garden Hose Adapter (1/2" MPT) .....	2
18	Bulkhead Fitting (3/4") .....	1
19	Gripping Bulkhead Lock Nut (1/2" NPT) .....	2
20	Hose Clamp .....	4
21	Vinyl Tube (1/2" ID X 3/4" OD x 18") .....	1
22	Vinyl Tube (1/2" ID X 3/4" OD x 6") .....	1
23	Male Elbow (1/2 NPT X 1/2" Barb) .....	2
24	Water Sensor Smart Level .....	1
25	Cable Tie .....	2
26	Water Reservoir Washer .....	2
27	Hose Barb Adapter (1-1/4" MPT X 1-1/2") ...	1
28	Water Reservoir Gasket .....	2
29	Water Sensor and Reservoir Kit	
	(includes item 24 and 25) .....	1
30	Male Connector (1/4") .....	1
31	Brass Tube Support .....	1
32	TFE Tube (3/16" ID) .....	1
33	Female Elbow (1/2 NPT X 1/2" Barb) .....	2
34	Wet Table Water Pump Kit .....	1
35	Plain Washer .....	4
36	Keps Nut w/ ext. Lockwasher (#10-32) .....	4
37	Optional - Backflow Preventer .....	1

**Always Specify Model & Serial Number**

VA1510I

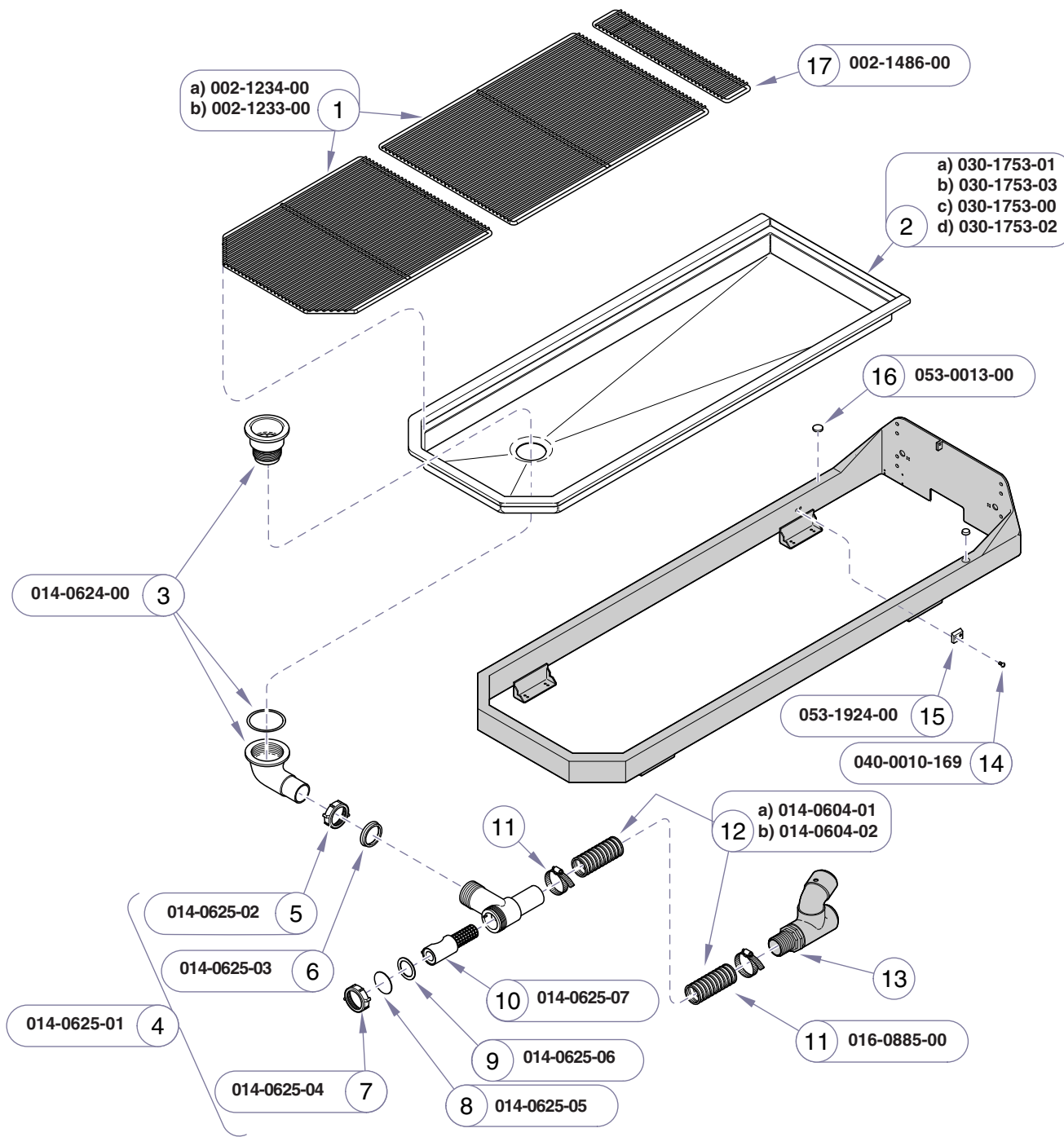
**Models:** **CMDT & CMDT-WS (45 & 60)**  
**Serial Numbers:** V732680 thru Present

**Water System**  
(wet tables only)

**E-11.4**

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Item	Description	Qty.
1	Grate Kit ( <i>replaces one-piece weldment</i> ):	
a)	45" tabletop .....	1
b)	60" tabletop .....	1
2	Tabletop Drain Pan Weldment:	
a)	45" tabletop w/ scale .....	1
b)	45" tabletop w/o scale .....	1
c)	60" tabletop w/ scale .....	1
d)	60" tabletop w/o scale .....	1
3	Tub Drain ( <i>includes Gasket</i> ) .....	1
4	Tub Drain Filter ( <i>incl. items 5 thru 11</i> ) .....	1
5	• PVC Nut (1.5") .....	Ref
6	• Sealing Gasket (1.5") .....	Ref
7	• PVC Nut (1.5") .....	Ref
8	• Clear Sight Glass (1.75" OD x .09" tk.) .....	Ref
9	• Rubber Gasket (1.18" ID x 1.75" OD) .....	Ref
10	• Drain Strainer .....	Ref
11	Hose Clamp (2") .....	1
12	Drain Hose:	
a)	45" tabletop (55" hose length) .....	1
b)	60" tabletop (65" hose length) .....	1
13	PVC Elbow Assembly .....	Ref
14	Screw, Flat Head (#10-24" x 3/8") .....	10
15	Tabletop Spacer ( <i>units without scale only</i> ) ...	5
16	Rubber Bumper ( <i>units without scales only</i> ) ...	4
17	4" Filler Grate Accessory .....	1

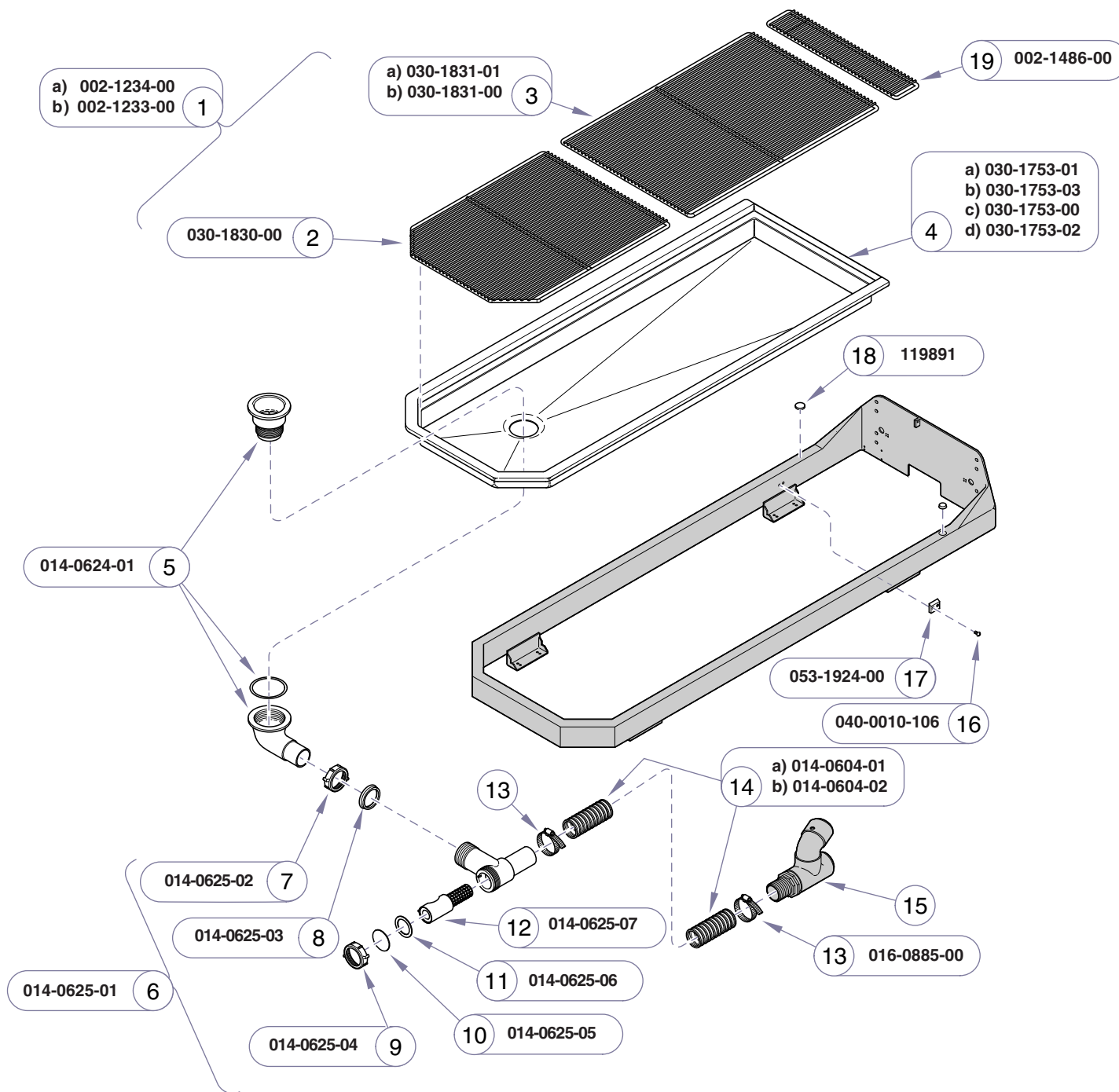
Always Specify Model & Serial Number

VA103101i

## Table Top Components (wet tables only)

**Models:**  
**Serial Numbers:**

**CMDT & CMDT-WS (45 & 60)**  
**DMM-1070-D/T-05 thru DMM-1288-D/T-09**



Item	Description	Qty.
1	Grate Kit (includes Items 2 & 3)	
	a) 45" tabletop .....	1
	b) 60" tabletop .....	1
2	• Front Grate Weldment .....	1
3	• Back Grate Weldment:	
	a) 45" tabletop .....	1
	b) 60" tabletop .....	1
4	Tabletop Drain Pan Weldment:	
	a) 45" tabletop w/ scale .....	1
	b) 45" tabletop w/o scale .....	1
	c) 60" tabletop w/ scale .....	1
	d) 60" tabletop w/o scale .....	1
5	Tub Drain (includes Gasket) .....	1
6	Tub Drain Filter (incl. items 7 thru 12) .....	1
7	• PVC Nut (1.5") .....	Ref
8	• Sealing Gasket (1.5") .....	Ref
9	• PVC Nut (1.5") .....	Ref
10	• Clear Sight Glass (1.75" OD x .09" tk.) .....	Ref
11	• Rubber Gasket (1.18" ID x 1.75" OD) .....	Ref
12	• Filter .....	Ref
13	Hose Clamp (2") .....	2
14	Drain Hose (apply sealant #S074-00002):	
	a) 45" tabletop (55" hose length) .....	1
	b) 60" tabletop (65" hose length) .....	1
15	PVC Elbow Assembly .....	Ref
16	Screw, Flat Head (#10-24" x 3/8") .....	10
17	Tabletop Spacer (units without scale only) .....	5
18	Rubber Bumper (units without scales only) .....	4
19	4" Filler Grate Accessory .....	1
<b>Always Specify Model &amp; Serial Number</b>		

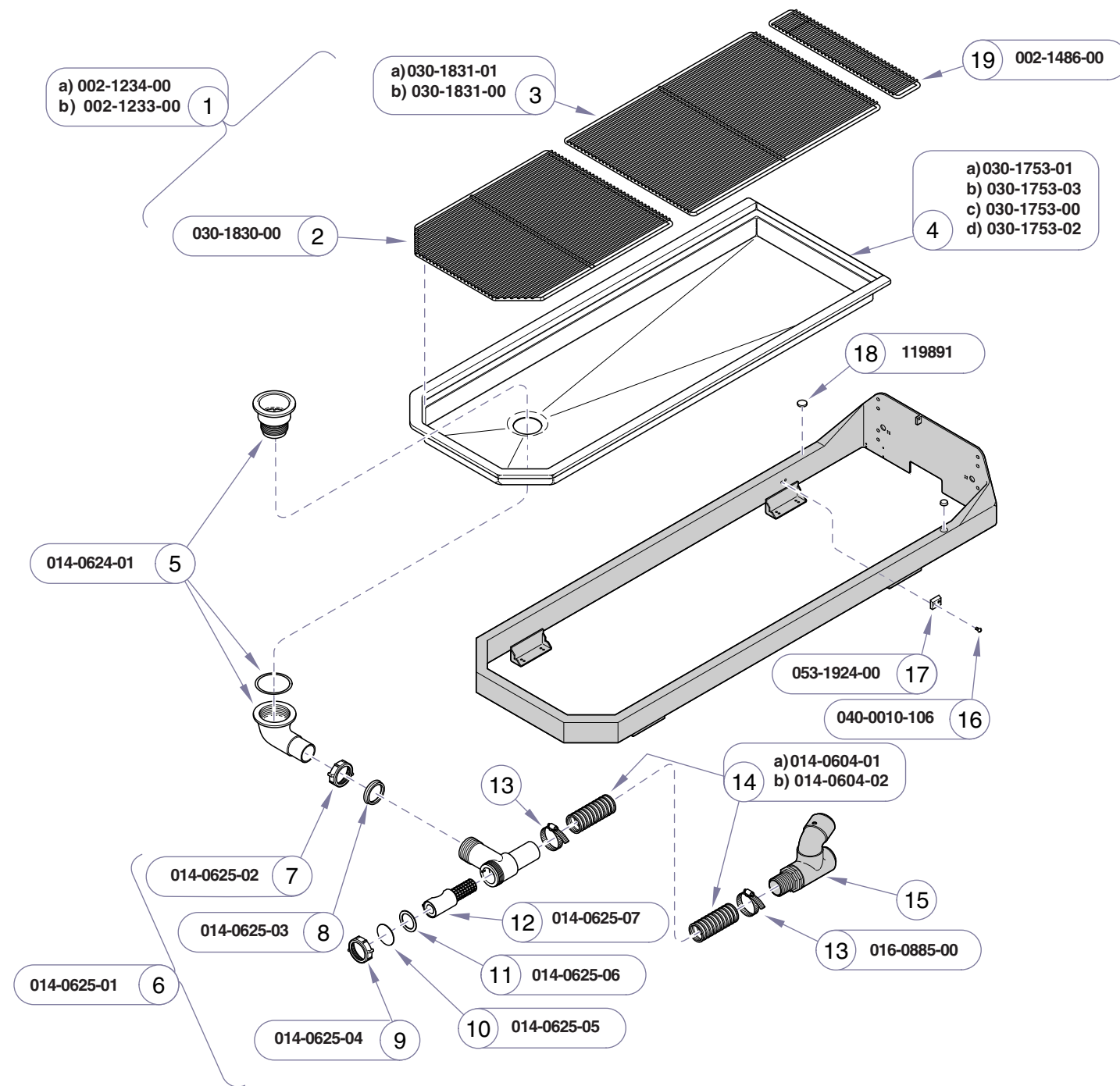
VA1511021

**Models:** **CMDT & CMDT-WS (45 & 60)**  
**Serial Numbers:** V732680 thru V941469

**Table Top Components**  
 (wet tables only)

**E-12.1**

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Item	Description	Qty.
1	Grate Kit (includes Items 2 & 3)	
	a) 45" tabletop .....	1
	b) 60" tabletop .....	1
2	• Front Grate Weldment .....	1
3	• Back Grate Weldment:	
	a) 45" tabletop .....	1
	b) 60" tabletop .....	1
4	Tabletop Drain Pan Weldment:	
	a) 45" tabletop w/ scale .....	1
	b) 45" tabletop w/o scale .....	1
	c) 60" tabletop w/ scale .....	1
	d) 60" tabletop w/o scale .....	1
5	Tub Drain (includes Gasket) .....	1
6	Tub Drain Filter (incl. items 7 thru 12) .....	1
7	• PVC Nut (1.5") .....	Ref
8	• Sealing Gasket (1.5") .....	Ref
9	• PVC Nut (1.5") .....	Ref
10	• Clear Sight Glass (1.75" OD x .09" tk.) .....	Ref
11	• Rubber Gasket (1.18" ID x 1.75" OD) .....	Ref
12	• Filter .....	Ref
13	Hose Clamp (2") .....	2
14	Drain Hose (apply sealant #S074-00002):	
	a) 45" tabletop (55" hose length) .....	1
	b) 60" tabletop (65" hose length) .....	1
15	PVC Elbow Assembly .....	Ref
16	Screw, Flat Head (#10-24" x 3/8") .....	10
17	Tabletop Spacer (units without scale only) .....	5
18	Rubber Bumper (units without scales only) .....	4
19	4" Filler Grate Accessory .....	1
<b>Always Specify Model &amp; Serial Number</b>		

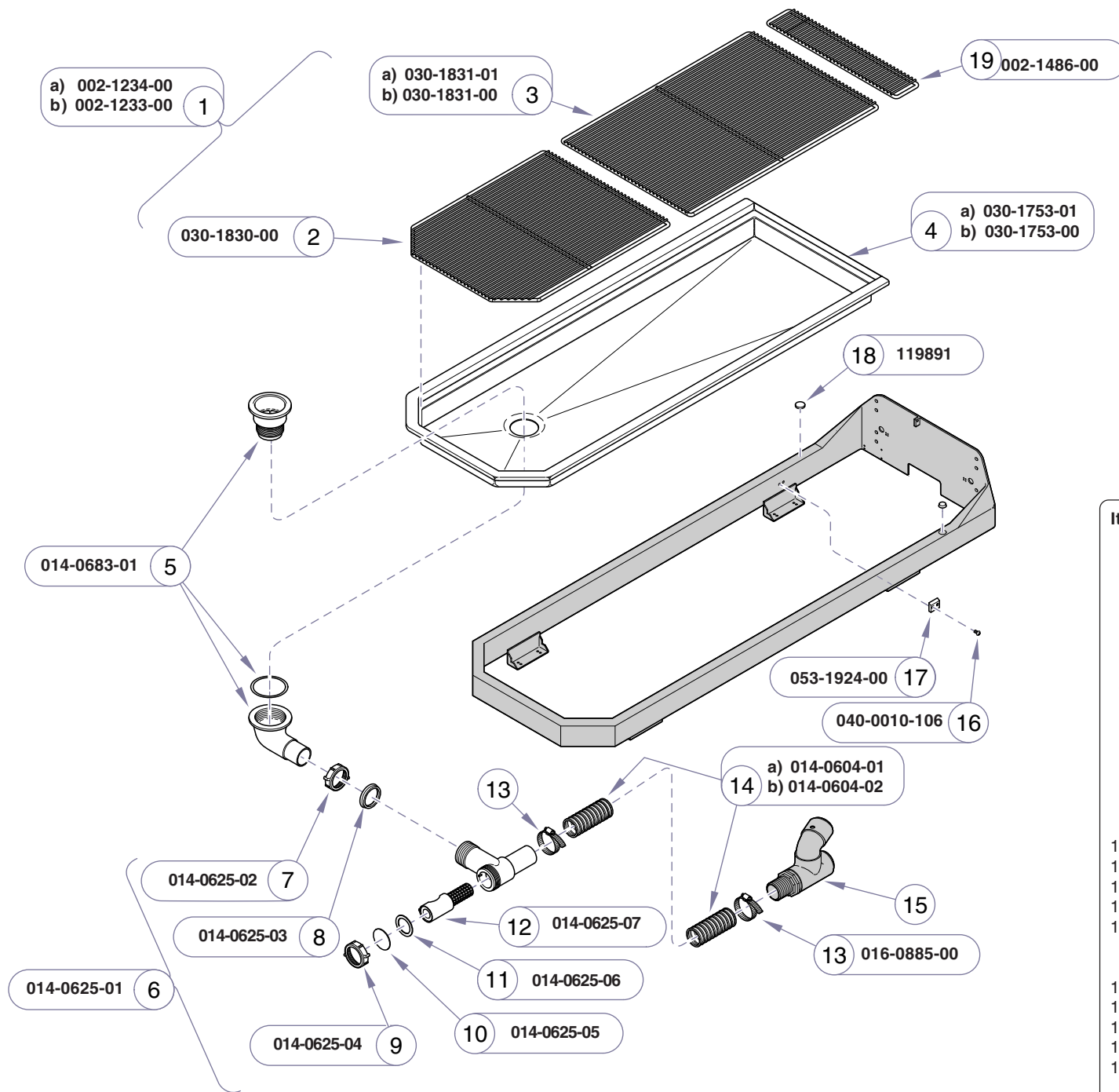
VA1511021

## Table Top Components (wet tables only)

E-12.2

**Models:**  
**Serial Numbers:**

**CMDT & CMDT-WS (45 & 60)**  
V941470 thru V962624



Item	Description	Qty.
1	Grate Kit (includes Items 2 & 3)	
	a) 45" tabletop .....	1
	b) 60" tabletop .....	1
2	• Front Grate Weldment .....	1
3	• Back Grate Weldment:	
	a) 45" tabletop .....	1
	b) 60" tabletop .....	1
4	Tabletop Drain Pan Weldment:	
	a) 45" tabletop .....	1
	b) 60" tabletop .....	1
5	Tub Drain (includes Gasket) .....	1
6	Tub Drain Filter (incl. items 7 thru 12) .....	1
7	• PVC Nut (1.5") .....	Ref
8	• Sealing Gasket (1.5") .....	Ref
9	• PVC Nut (1.5") .....	Ref
10	• Clear Sight Glass (1.75" OD x .09" tk.) .....	Ref
11	• Rubber Gasket (1.18" ID x 1.75" OD) .....	Ref
12	• Filter .....	Ref
13	Hose Clamp (2") .....	2
14	Drain Hose (apply sealant #S074-00002):	
	a) 45" tabletop (55" hose length) .....	1
	b) 60" tabletop (65" hose length) .....	1
15	PVC Elbow Assembly .....	Ref
16	Screw, Flat Head (#10-24" x 3/8") .....	10
17	Tabletop Spacer (units without scale only) .....	5
18	Rubber Bumper (units without scales only) .....	4
19	4" Filler Grate Accessory .....	1
<b>Always Specify Model &amp; Serial Number</b>		

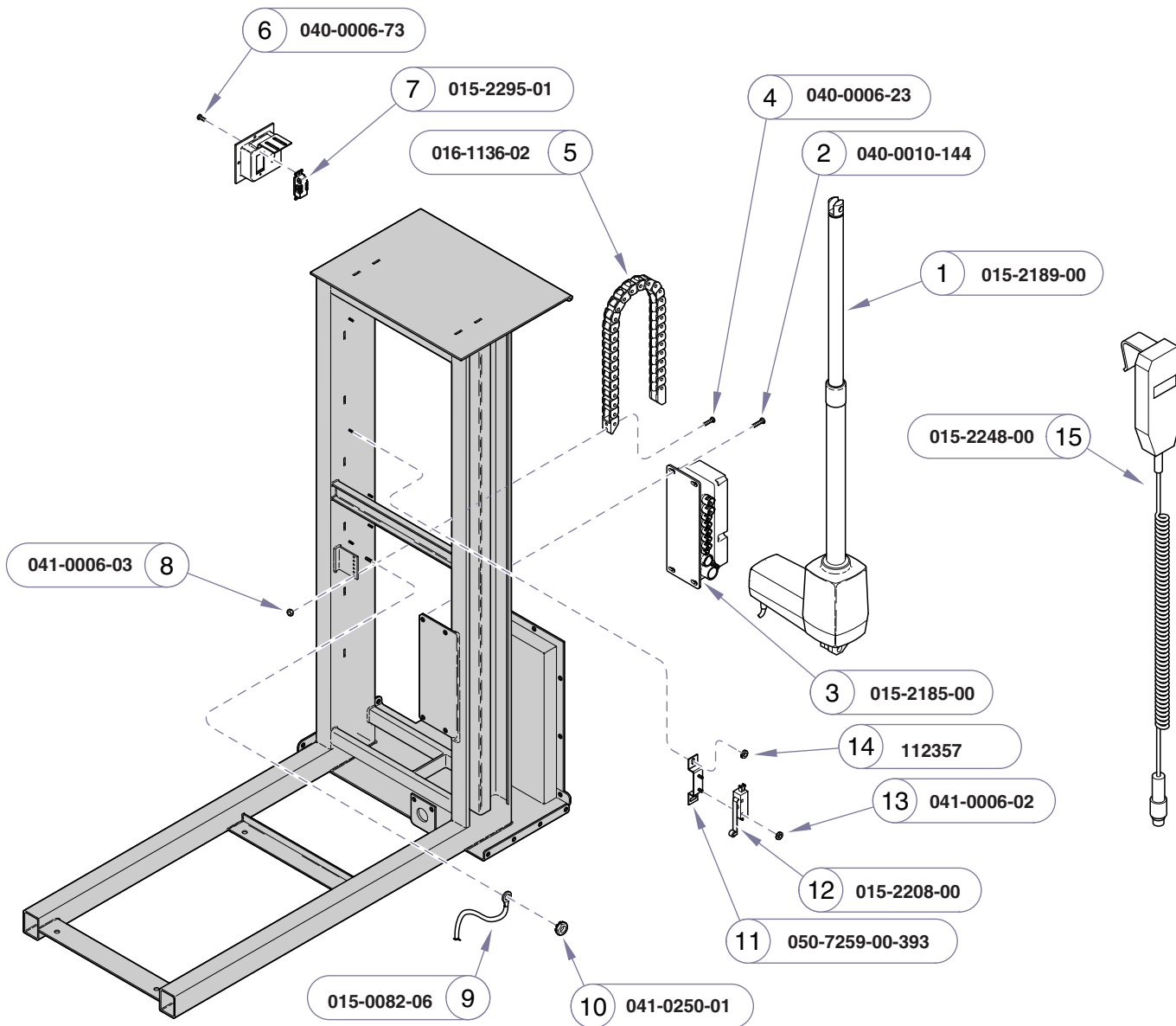
VA151103i

**Models:** CMTD & CMTD-WS (45 & 60)  
**Serial Numbers:** V962625 thru Present

**Table Top Components**  
 (wet tables only)

**E-12.3**

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**NOTE:** This model was manufactured using White painted components.

Item	Description	Qty.
1	Linear Actuator (refer to "Wiring Diagram" in Section "D") .....	1
2	Screw, Pan Head (#10-32" x 1/2") .....	4
3	Actuator Controller (refer to "Wiring Diagram" in Section "D") .....	1
4	Screw (#6-32 x 1/2") .....	4
5	E-Chain & Mounting Bracket .....	1
6	Screw (#6-32 x 3/4") .....	2
7	GFCI Duplex Receptacle .....	1
8	Hex Nylon Nut (#6-32) .....	2
9	Grounding Braid .....	1
10	Hex Nylon Nut (1/4"-20) .....	8
11	Limit Switch Bracket .....	1
12	Limit Switch .....	1
13	Kep Nut w/ Starwasher (#6-32) .....	2
14	Keps Lock Nut (#10-32) .....	2

**Always Specify Model & Serial Number**

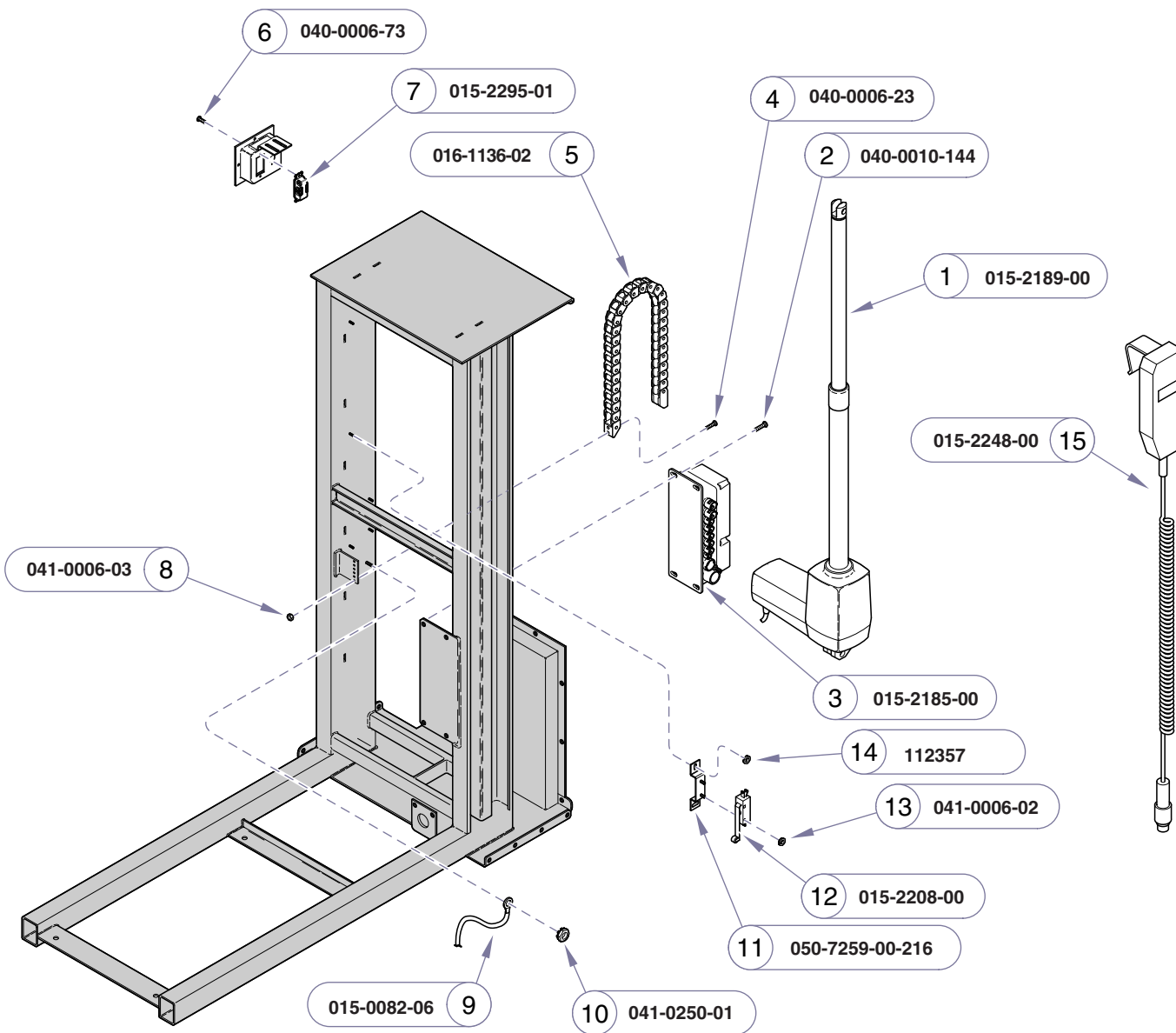
VA104100i

**Electrical Components**  
(wet tables only)

**Models:**  
Serial Numbers:

**CMDT & CMDT-WS (45 & 60)**  
DMM-1070-D/T-05 thru DMM-1241-D/T-08





**NOTE:** This model was manufactured using **Pebble Grey** painted components.

Item	Description	Qty.
1	Linear Actuator (refer to "Wiring Diagram" in Section "D")	1
2	Screw, Pan Head (#10-32" x 1/2")	4
3	Actuator Controller (refer to "Wiring Diagram" in Section "D")	1
4	Screw (#6-32 x 1/2")	4
5	E-Chain & Mounting Bracket	1
6	Screw (#6-32 x 3/4")	2
7	GFCI Duplex Receptacle	1
8	Hex Nylon Nut (#6-32)	2
9	Grounding Braid	1
10	Hex Nylon Nut (1/4"-20)	8
11	Limit Switch Bracket	1
12	Limit Switch	1
13	Kep Nut w/ Starwasher (#6-32)	2
14	Keps Lock Nut (#10-32)	2

**Always Specify Model & Serial Number**

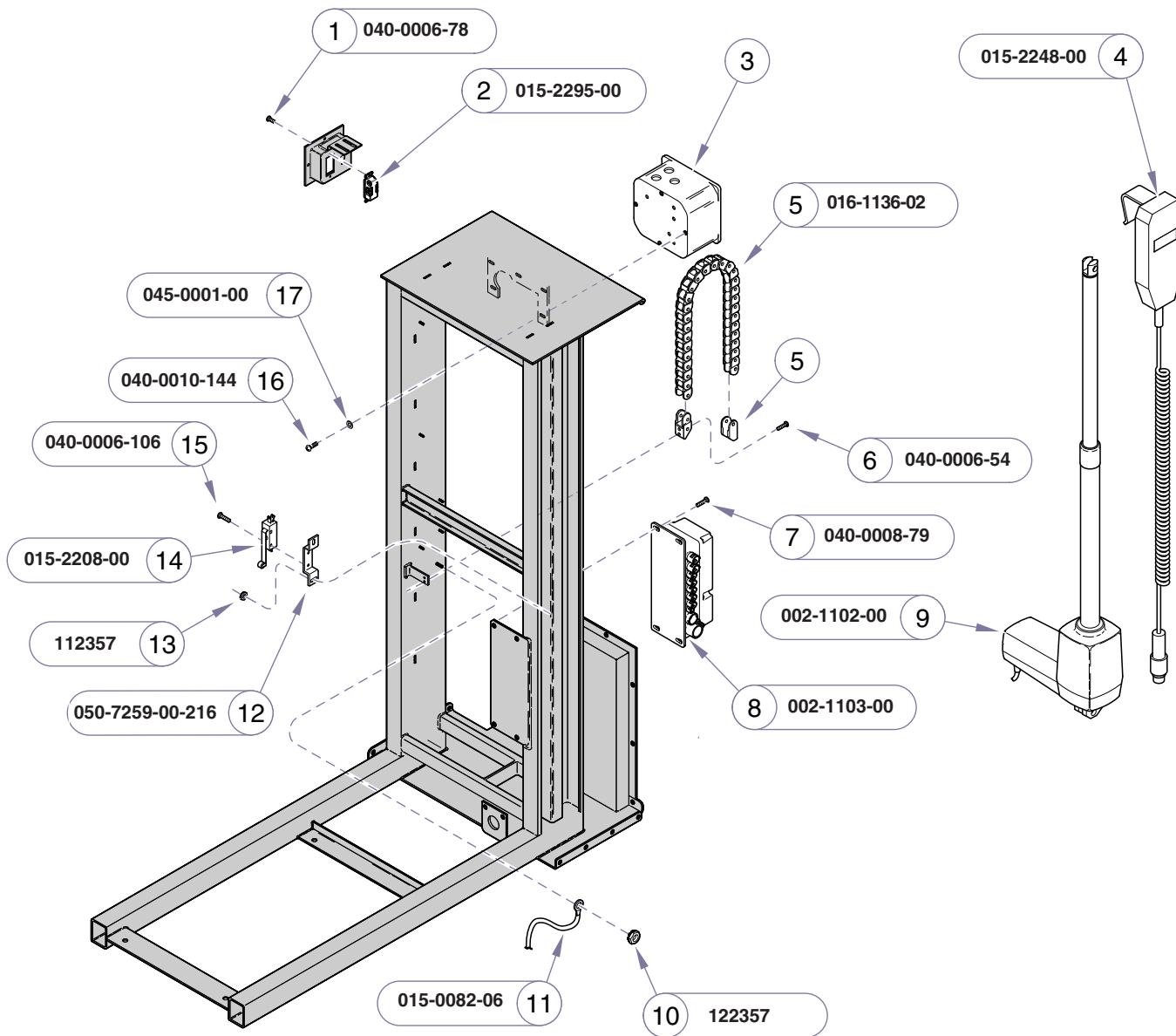
VA1041001

**Models:** **CMDT & CMDT-WS (45 & 60)**  
**Serial Numbers:** DMM-1242-D/T-08 thru DMM-1288-D/T-09

**Electrical Components**  
(wet tables only)

**E-13.1**

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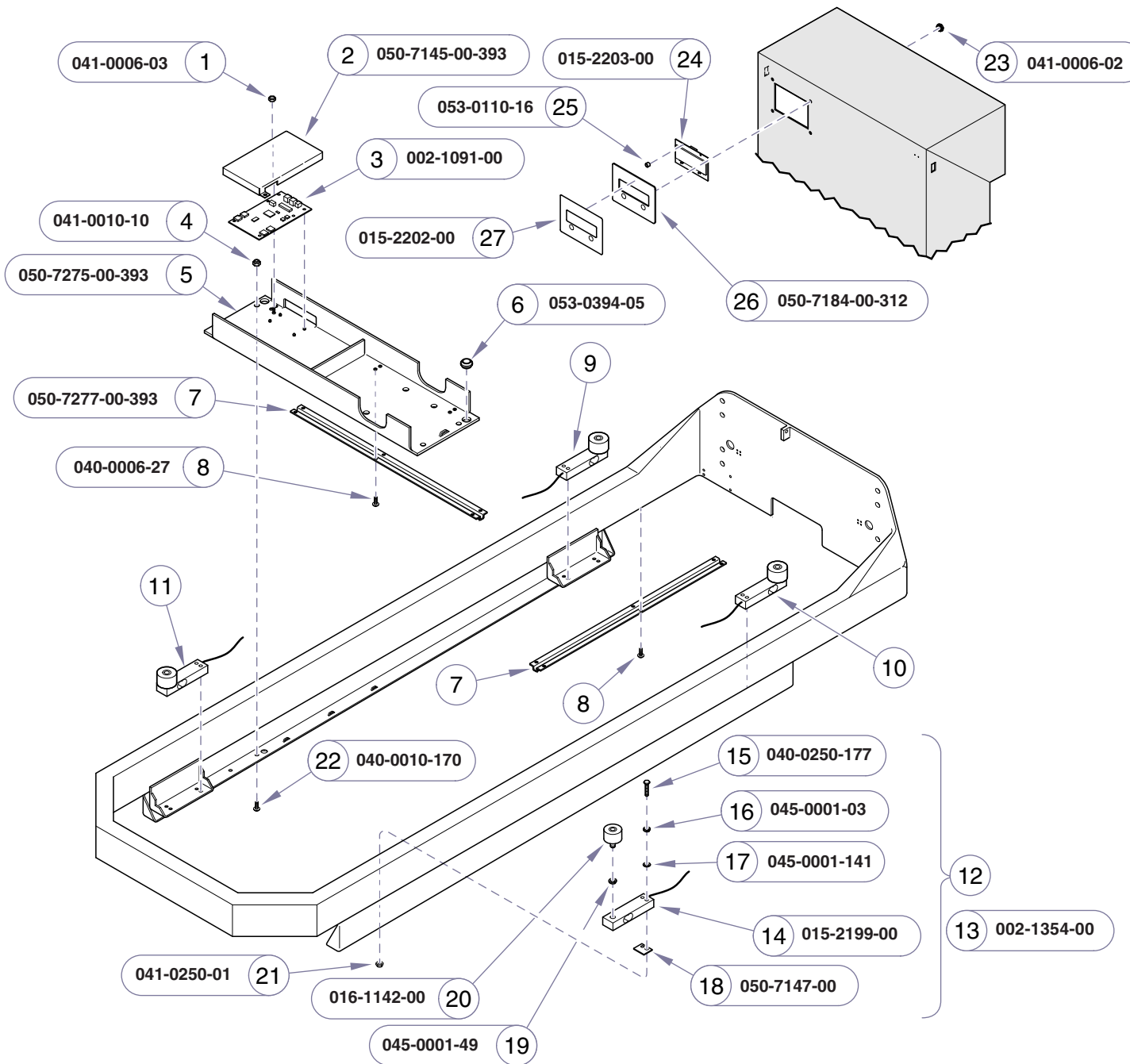


**NOTE:** This model was manufactured using **Pebble Grey** painted components.

Item	Description	Qty.
1	Screw (#6-32 x 5/8") .....	2
2	GFCI Duplex Receptacle .....	1
3	Control Box Assembly:	
	a) units with scale .....	Ref
	b) units without scale .....	Ref
4	Hand Control .....	1
5	E-Chain & Mounting Bracket .....	1
6	Screw (#6-32 x 5/16") .....	4
8	Screw, Pan Head (#8-32" x 1/2") .....	4
9	Actuator Controller (refer to "Wiring Diagram" in Section "D") .....	1
10	Linear Actuator (refer to "Wiring Diagram" in Section "D") .....	1
11	Hex Nylon Nut (1/4"-20) .....	1
12	Grounding Braid .....	1
13	Limit Switch Bracket .....	1
14	Keys Lock Nut (#10-32) .....	2
15	Limit Switch .....	1
16	Screw, Pan Head (#6-32 x 1") .....	2
17	Screw, Pan Head (#10-32" x 1/2") .....	3
18	Plain Washer (#10) .....	3

**Always Specify Model & Serial Number**

VA1512i



**NOTE:** This model was manufactured using White painted components.

Item	Description	Qty.
1	Hex Nylock Nut (#6-32) .....	2
2	Scale Summing Board Cover .....	1
3	Summing PC Board .....	1
4	Uni-Torque Lock Nut (#10-32) .....	4
5	Cross Member Bracket .....	1
6	Grommet .....	6
7	Cable Channel: 45" length tabletop .....	1
	60" length tabletop .....	2
8	Screw, Pan Hd. (#6-32 x 1/2): 45" length tabletop .....	12
	60" length tabletop .....	24
9	Left Rear Load Cell (location ref. only) ....	Ref
10	Right Rear Load Cell (location ref. only) ..	Ref
11	Left Front Load Cell (location ref. only) ....	Ref
12	Right Front Load Cell (location ref. only) .	Ref
13	Load Cell Kit (incl. four load cells {item 14} & mounting comp. {items 15 thru 20}) .....	1
14	• Load Cell .....	4
15	• Hex Bolt (1/4-20 x 1 1/2") .....	8
16	• Lockwasher (1/4") .....	8
17	• Washer (1/4") .....	12
18	• Load Cell Spacer .....	4
19	• Flat Washer (3/8") .....	4
20	• Vibration Mount .....	4
21	Nylock Hex Nut (1/4"-20) .....	4
22	Screw, Truss Head (#10-32 x 1/2") .....	4
23	Keps Nut w/Starwasher (#6-32) .....	8
24	Display Scale PC Board .....	1
25	Spacer .....	4
26	Display Board Mount Assembly .....	1
27	Display Overlay .....	1

**Always Specify Model & Serial Number**

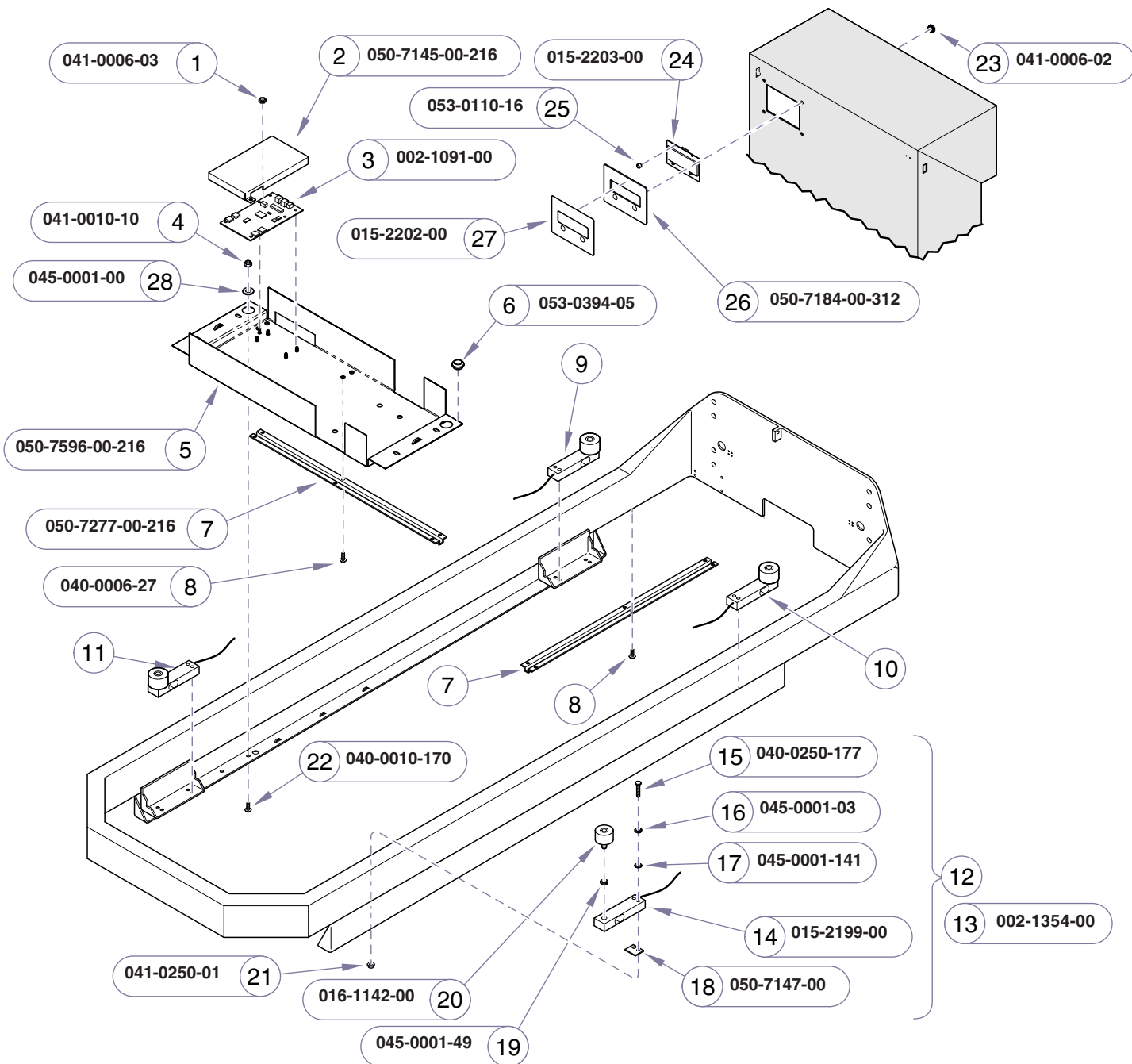
VA103000i

**Models:** **CMDT & CMDT-WS (45 & 60)**  
**Serial Numbers:** DMM-1070-D/T-05 thru DMM-1241-D/T-08

**Scale Components**  
 (wet tables only)

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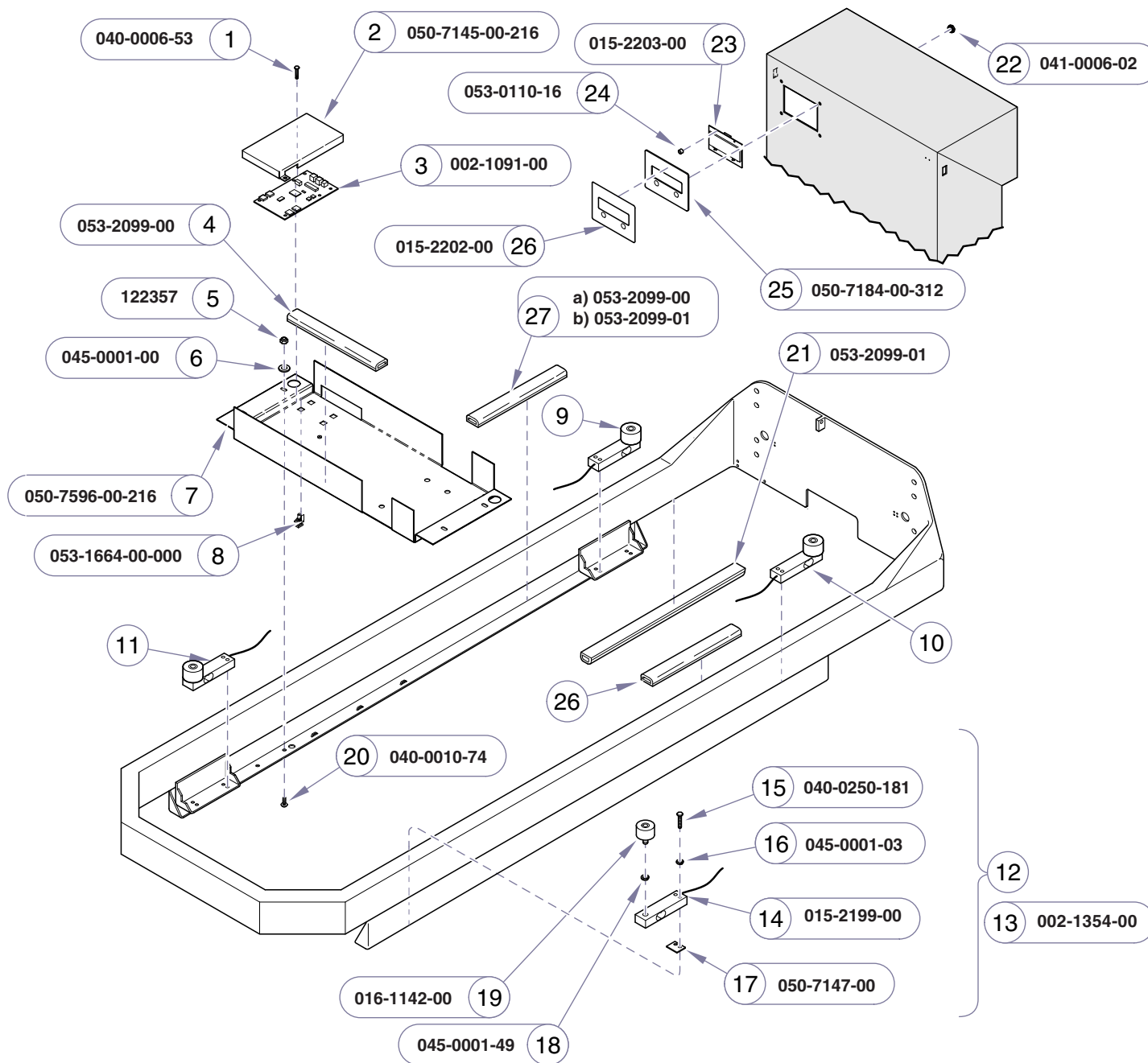


**NOTE:** This model was manufactured using Pebble Grey painted components.

Item	Description	Qty.
1	Hex Nylock Nut (#6-32) .....	2
2	Scale Summing Board Cover .....	1
3	Summing PC Board .....	1
4	Uni-Torque Lock Nut (#10-32) .....	4
5	Cross Member Bracket .....	1
6	Grommet .....	6
7	Cable Channel: 45" length tabletop .....	1
	60" length tabletop .....	2
8	Screw, Pan Hd. (#6-32 x 1/2): 45" length tabletop .....	12
	60" length tabletop .....	24
9	Left Rear Load Cell (location ref. only) .....	Ref
10	Right Rear Load Cell (location ref. only) ..	Ref
11	Left Front Load Cell (location ref. only) ..	Ref
12	Right Front Load Cell (location ref. only) .	Ref
13	Load Cell Kit (incl. four load cells {item 14} & mounting comp. {items 15 thru 20}) .....	1
14	• Load Cell .....	4
15	• Hex Bolt (1/4-20 x 1 1/2") .....	8
16	• Lockwasher (1/4") .....	8
17	• Washer (1/4") .....	12
18	• Load Cell Spacer .....	4
19	• Flat Washer (3/8") .....	4
20	• Vibration Mount .....	4
21	Nylock Hex Nut (1/4"-20) .....	4
22	Screw, Truss Head (#10-32 x 1/2") .....	4
23	Keps Nut w/Starwasher (#6-32) .....	8
24	Display Scale PC Board .....	1
25	Spacer .....	4
26	Display Board Mount Assembly .....	1
27	Display Overlay .....	1
28	Washer .....	4

**Always Specify Model & Serial Number**

VA1030021



**NOTE:** This model was manufactured using **Pebble Grey** painted components.

Item	Description	Qty.
1	Screw, Pan Head (#6-32 x 1/4")	2
2	Scale Summing Board Cover	1
3	Summing PC Board	1
4	Wire Guide Channel (8")	3
5	Keps Nut w/ ext. Lockwasher (#10-32)	4
6	Plain Washer (1/4")	4
7	Scale Board Tray Assembly	1
8	PC Board Standoff	6
9	Left Rear Load Cell (location ref. only)	Ref
10	Right Rear Load Cell (location ref. only)	Ref
11	Left Front Load Cell (location ref. only)	Ref
12	Right Front Load Cell (location ref. only)	Ref
13	Load Cell Kit (incl. four load cells {item 14} & mounting comp. {items 15 thru 19})	1
14	• Load Cell	4
15	• Hex Bolt (1/4-20 x 1 1/2")	8
16	• Washer (1/4")	12
17	• Load Cell Spacer	4
18	• Flat Washer (3/8")	4
19	• Vibration Mount	4
20	Screw, Pan Head (#10-32 x 3/8")	4
21	Wire Guide Channel (18")	1
22	Keps Nut w/Starwasher (#6-32)	8
23	Display Scale PC Board	1
24	Spacer	4
25	Display Board Mount Assembly	1
26	Display Overlay	1
27	Wire Guide Channel:	
	a) 8" [45" tabletop]	2
	b) 18" [60" tabletop]	2

**Always Specify Model & Serial Number**

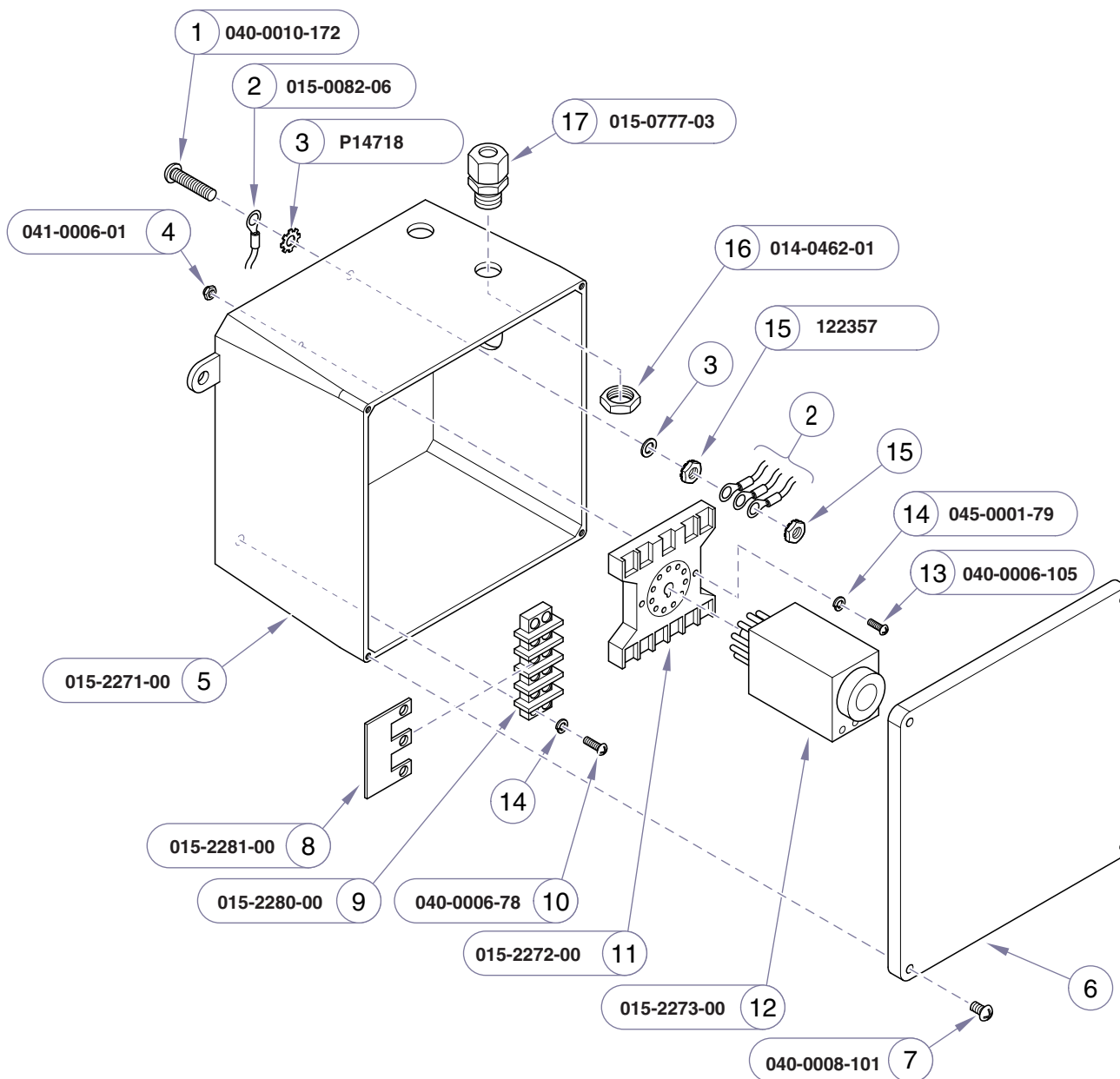
VA1513-00i

**Models:** **CMDT & CMDT-WS (45 & 60)**  
**Serial Numbers:** V732680 thru Present

**Scale Components**  
 (wet tables only)

**E-14.2**

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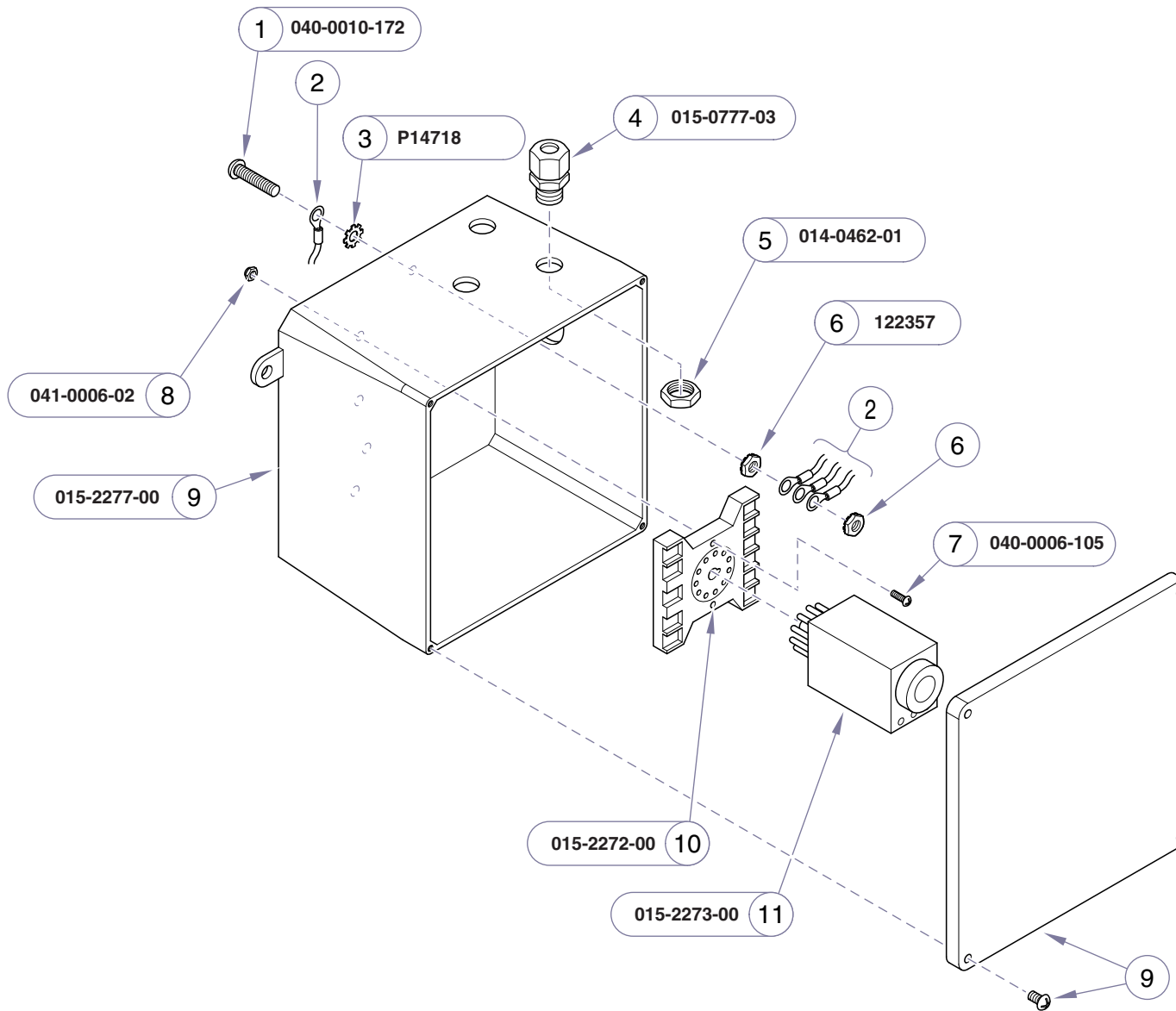
Item	Description	Qty.
1	Screw, Pan Head (#10-32 x 1")	1
2	Grounding Braid	Ref
3	Lock Washer (#10)	2
4	Hex Nut (#6-32)	6
5	Junction Box (incl. items 6 & 7)	1
6	• Electrical Enclosure Box Cover	1
7	• Screw, Pan Phillips Head (#8 x 5/8")	4
8	3 Position Terminal Block Jumper	2
9	4 Position Terminal Block	2
10	Screw, Pan Phillips Head (#6-32 x 3/4")	4
11	Electronic Timer Base	1
12	Electronic Timer	1
13	Screw, Pan Phillips Head (#6-32 x 1")	2
14	Lockwasher (#6-32)	8
15	Keps Lock Nut (#10-32)	2
16	Nut (1/2"-13)	2
17	Strain Relief Bulkhead Fitting	2

**Always Specify Model & Serial Number**

VA1028001

**Electrical Box**  
(wet tables w/o scale only)

**Models:** **CMDT & CMDT-WS (45 & 60)**  
**Serial Numbers:** DMM-1070-D/T-05 thru DMM-1288-D/T-09



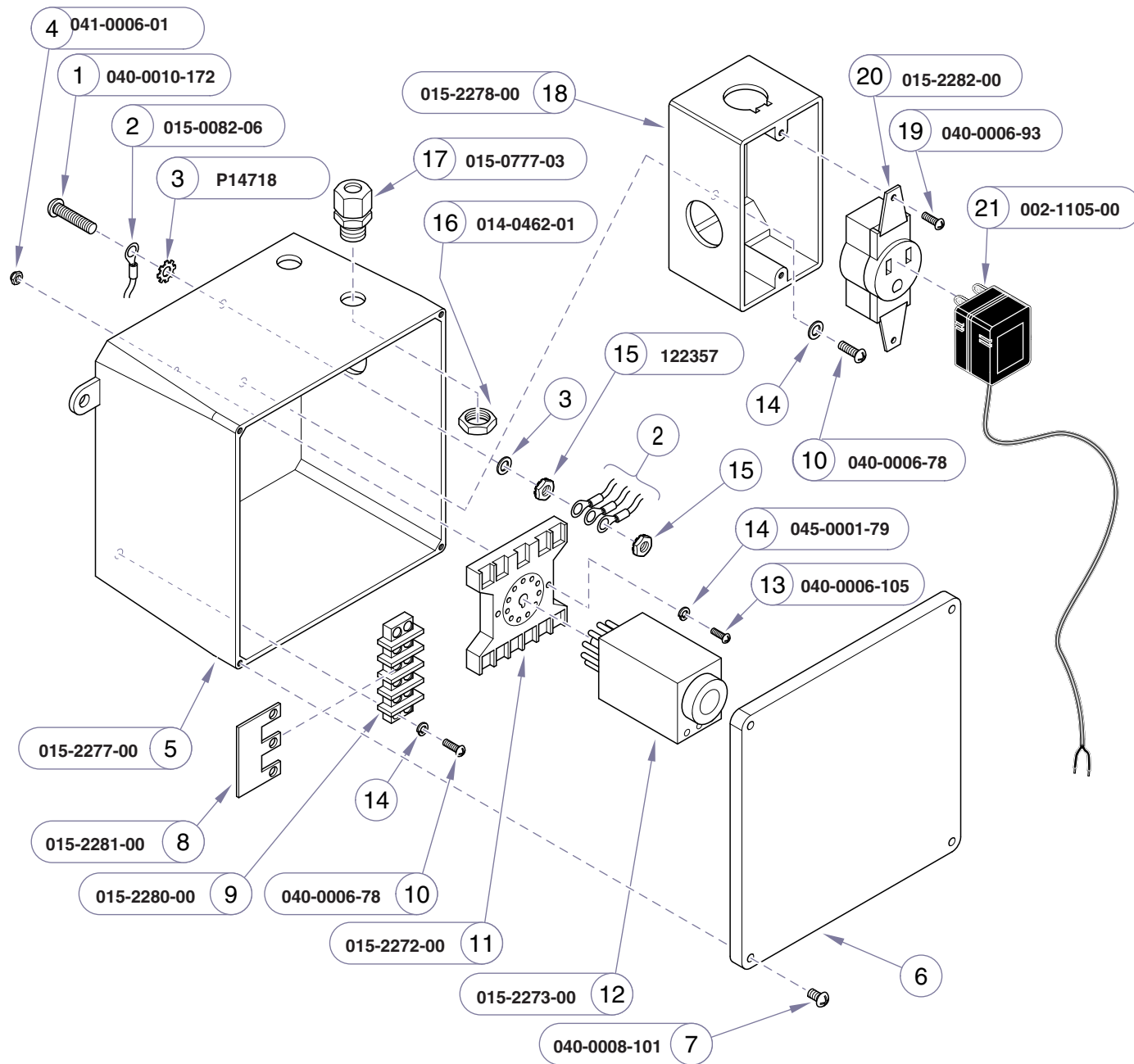
Item	Description	Qty.
1	Screw, Pan Head (#10-32 x 1")	1
2	Grounding Wires (refer to "Wiring Diagram" in Section "D")	Ref
3	Lock Washer (#10)	1
4	Strain Relief Bulkhead Fitting	3
5	Nut (1/2"-13)	3
6	Keps Lock Nut (#10-32)	2
7	Screw, Pan Phillips Head (#6-32 x 1")	2
8	Hex Nut (#6-32)	4
9	Large Junction Box (incl. cover & screws)	1
10	Electronic Timer Base	1
11	Electronic Timer	1

**Always Specify Model & Serial Number**

VA1514i

**Models:** **CMDT & CMDT-WS (45 & 60)**  
**Serial Numbers:** V732680 thru Present

**Electrical Box**  
 (wet tables w/o scale only)

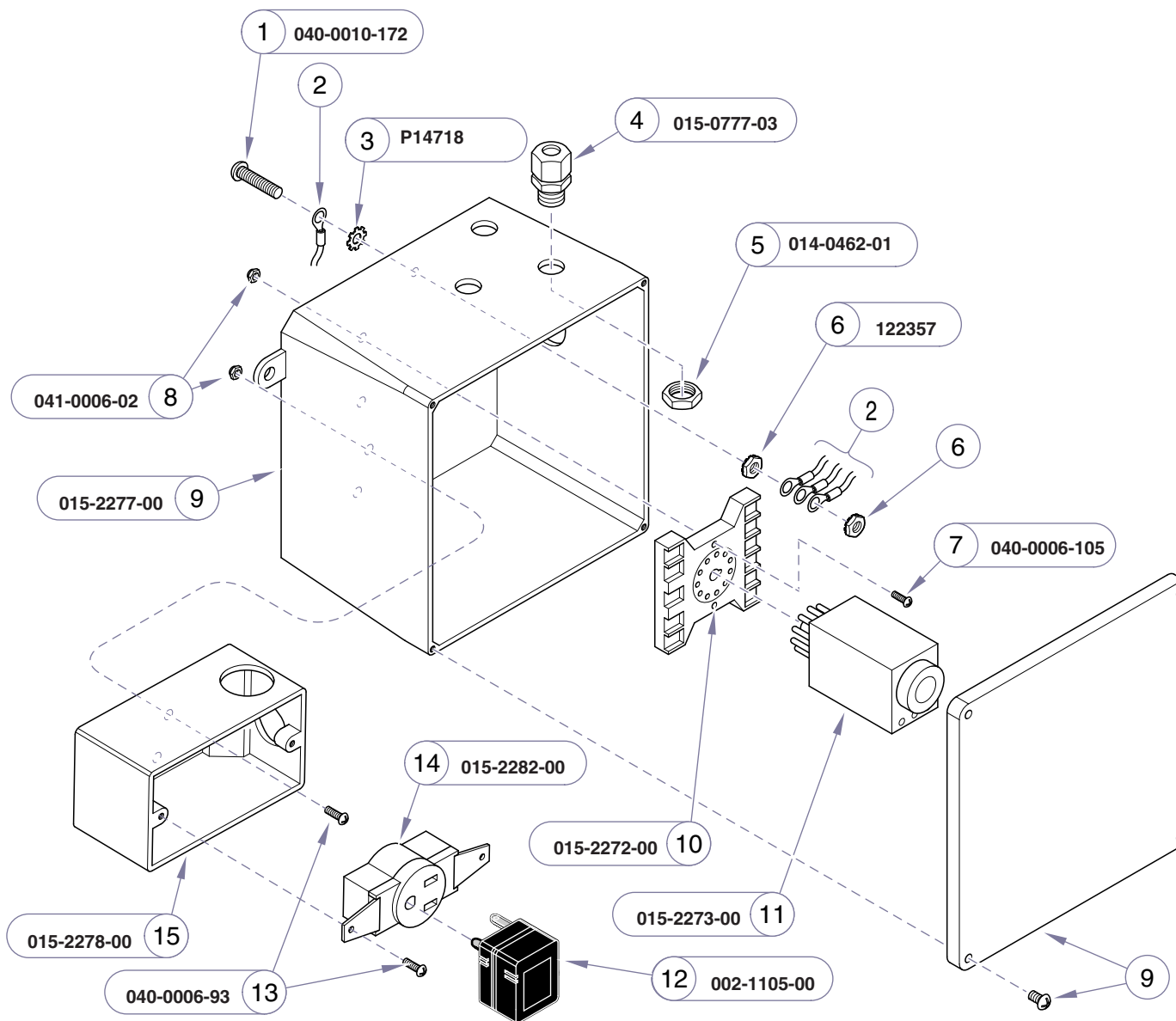


Item	Description	Qty.
1	Screw, Pan Head (#10-32 x 1") .....	1
2	Grounding Braid .....	Ref
3	Lock Washer (#10) .....	2
4	Hex Nut (#6-32) .....	8
5	Junction Box (incl. items 6 & 7) .....	1
6	• Electrical Enclosure Box Cover .....	1
7	• Screw, Pan Phillips Head (#8 x 5/8") .....	4
8	3 Position Terminal Block Jumper .....	2
9	4 Position Terminal Block .....	2
10	Screw, Pan Phillips Head (#6-32 x 3/4") ....	6
11	Electronic Timer Base .....	1
12	Electronic Timer .....	1
13	Screw, Pan Phillips Head (#6-32 x 1") .....	2
14	Lockwasher (#6-32) .....	8
15	Keps Lock Nut (#10-32).....	2
16	Nut (1/2"-13) .....	2
17	Strain Relief Bulkhead Fitting .....	2
18	Junction Box (1-7/8" x 4 x 2-1/8).....	1
19	Screw (#10-32 x 5/8") .....	2
20	Single Receptacle .....	1
21	Scale Transformer Kit (refer to "Wiring Diagram" in Section "D") .....	1
<b>Always Specify Model &amp; Serial Number</b>		

VA102701i

**Electrical Box**  
(wet tables with scale only)

**Models:** **CMDT & CMDT-WS (45 & 60)**  
**Serial Numbers:** DMM-1070-D/T-05 thru DMM-1288-D/T-09



Item	Description	Qty.
1	Screw, Pan Head (#10-32 x 1")	1
2	Grounding Wires (refer to "Wiring Diagram" in Section "D")	Ref
3	Lock Washer (#10)	1
4	Strain Relief Bulkhead Fitting	3
5	Nut (1/2"-13)	3
6	Keps Lock Nut (#10-32)	2
7	Screw, Pan Phillips Head (#6-32 x 1")	2
8	Hex Nut (#6-32)	4
9	Large Junction Box (incl. cover & screws)	1
10	Electronic Timer Base	1
11	Electronic Timer	1
12	Scale Transformer Kit (refer to "Wiring Diagram" in Section "D")	1
13	Screw, Pan Phillips Head (#6-32 x 5/8")	4
14	Small Junction Box	1

Always Specify Model & Serial Number

VA1515i

**Models:** **CMDT & CMDT-WS (45 & 60)**  
**Serial Numbers:** V732680 thru Present

**Electrical Box**  
(wet tables with scale only) **E-16.1**  
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ATTENTION: CUSTOMER SERVICE DEPARTMENT

**IMPORTANT NOTES:**

- 1) FAX number to send to:  
937-526-5542
- 2) Use this form for all non-warranty orders only. Warranty orders must be telephoned in (1-800-643-6275).
- 3) All emergency orders must be received @ Midmark by 1:00 pm EST.
- 4) All underlined headings should be filled in prior to submittal.

ADDITIONAL COMMENTS:

# SERVICE PARTS FAX ORDERING FORM

(Do not tear out this page. Photo copy this page for use only.)



**DATE:** \_\_\_\_ / \_\_\_\_ / \_\_\_\_ **TIME:** \_\_\_\_ am  
\_\_\_\_ pm

**METHOD OF SHIPMENT:** \_\_\_\_\_

**PRIORITY:** ☐ **NON-EMERGENCY ORDER** {to ship within 72 hours if part(s) are in stock.}  
☐ **EMERGENCY ORDER** {to ship within 24 hours if part(s) are in stock.} [see note 3]

**DEALER P.O. #:** \_\_\_\_\_

**ACCOUNT #:** \_\_\_\_\_

<b>MODEL #:</b> _____	<b>SERIAL #:</b> _____	<b>SALES ORDER #</b> (if applicable) _____
-----------------------	------------------------	-----------------------------------------------

<b>NAME:</b> _____ <b>ADDRESS:</b> _____ <b>CITY:</b> _____ <b>STATE:</b> _____ <b>ZIP:</b> _____ <b>CONTACT:</b> _____ <b>PHONE:</b> _____ <b>FAX #:</b> _____	<b>SHIP TO:</b> _____ _____ _____ _____ _____ _____
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------

LINE #	PART NUMBER	QTY.	DESCRIPTION	COLOR (if applicable)

**CREDIT CARD INFORMATION**

CARD TYPE \_\_\_\_\_ CARD # \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ EXP. DATE \_\_\_\_ / \_\_\_\_ / \_\_\_\_

NAME ON CARD \_\_\_\_\_ SIGNATURE \_\_\_\_\_



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